ST. JOSEPH UNIVERSITY INTANZANIA

PROSPECTUS FOR ACADEMIC YEAR 2019-20/2020-21

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DAR ES SALAAM, TANZANIA

PROSPECTUS 2019/20 and 2020/21

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ACRONYMS

ADoS	: Assistant Dean of Students'
ATM	: Automated Teller Machine
BTC	: Basic Technician Certificate
CCTV	: Closed-Circuit Television
COE	: Controller of Examination
CRDB	: Cooperative Rural Development Bank
CSEE	: Certificate of Secondary Education Examination
CVCPT	: Committee of Vice Chancellors, Principals and Provosts in
DMI	: Daughters of Mary Immaculate
DoS	: Dean of Students
DUCE	: Dar es Salaam University College of Education
DVC-ARPE	: Deputy Vice Chancellor – Academic, Research and Public Engagement
DVC-RMA	: Deputy Vice Chancellor – Resource Management and Administration
FTC	: Full Technician Certificate
GILT	: Global Institutional Learning and Training
GPA	: Grade Point Average
HoD	: Head of Department
ICT	: Information and Communication Technology
IET	: Institution of Engineers Tanzania
IPT	: Industrial Practical Training
ITAF	: Innovation & Techno-Preneurship Acceleration Facility
IUCEA	: Inter-University Council of East Africa
KCMC	: Kilimanjaro Christian Medical Centre
MCT	: Medical Council of Tanganyika
MD	: Doctor of Medicine
MMI	: Missionaries of Mary Immaculate
NACTE	: National Council for Technical Education
NAMCT	: Nursing and Midwifery Council of Tanzania
NBC	: National Bank of Commerce
NHIF	: National Health Insurance Fund
NMB	: National Microfinance Bank
PT	: Practical Training (in Industry)
SJCET	: St. Joseph College of Engineering and Technology
SJCHAS	: St. Joseph College of Health and Allied Sciences
SJCSME	: St. Joseph College of Sciences and Mathematics Education

SJUIT	: St. Joseph University In Tanzania
SOSJUIT	: Students Organization of St. Joseph University In Tanzania
TAPU	: Tanzania Association of Private Universities
TBI	: Technology-cum-Business Incubators
TCU	: Tanzania Commission for Universities
TP	: Teaching Practice
VC	: Vice Chancellor

CHANCELLOR'S MESSAGE

Greetings from St. Joseph University In Tanzania (SJUIT). St. Joseph University in Tanzania is embedded with the most congenial atmosphere and boasts the students to excel in their academic pursuit. We are committed to provide facilities of the highest standard to kindle unfettered spirit of knowledge that broadens the mind sets and creates positive attitudes. Our conglomerate of educational institutions and experience further reiterates our stand for quality and intellectual stimulation. We inculcate moral, spiritual and ethical values in a student's personality, enriched with academic and administrative skills. This in turn instills the confidence to care for their families and the society at large. We provide a roadmap for development with fortitude to produce high level human resources and widen the domain of learning. GILT (Global Institutional Learning and Training) is a unique study abroad programme of SJUIT in which a student gets an opportunity to explore the nuances of higher education. All of our programmes are benchmarked with programmes in best University. By and large, our system of education has a global outlook and international exposure, produces a new breed of youths with practical and administrative skills needed for national development.

May God bless you!

Rev. Fr. Dr. J. E. Arul Raj,

Founder and Chancellor of the University

PRESIDENT'S MESSAGE

Welcome to St. Joseph University in Tanzania (SJUIT). St. Joseph University In Tanzania is committed to offer excellent quality education at the most affordable cost. Our University strives it's best to ensure that our programmes delivers the necessary skills to enable students develop a broad, integrated approach and become active participants in the socio-economic life of their country. We have a team of people dedicated to the service of the student's community, diligent staff, modern equipment and facilities to create a dynamic environment with an aim to enhance intellectual excellence. SJUIT is established to imbibe knowledge and honing skills to the youth and prepare them to face global challenges. Our curricula are designed to provide a unique opportunity to disseminate knowledge that is relevant and suitable to spearhead development. Our continuous high employability rate further augments the holistic development of our students and their potential. I have great pleasure to invite you to join our fold and the learning platform that promotes academic research and provides an opportunity for upward social mobility.

Thanks and best wishes for future success

Dr. T. X. A. Ananth,

President-University Council

VICE CHANCELLOR'S MESSAGE

My hearty welcome to the students of St. Joseph University In Tanzania. The University provides conducive teaching, learning, research and social services environment. Since 2004, our institutions have been contributing much to this Country Through quality employable education and social service initiatives. As needs of the 21st Century, work forces grow and change. SJUIT is ever evolving to be a leader in meeting and exceeding these demands. We are offering courses ranging from Engineering, Management, Commerce and Education in Degree, Engineering and Science Education in Diploma and Certificate level. Bachelor of programmes aiming to produce qualified Science teachers required for this Nation. Recently SJUIT has launched MD programme and diploma in Nursing & Midwifery, Certificate in Nursing and Pharmaceutical Sciences at Boko. Our University is always committed to remain student-focused, innovative, nimble and flexible to meet the needs of our students and community partners. I am happy to know about your keenness to join our University. You are entering into the arena of higher education where the future is full of opportunities and promises. We pay equal attention to all round development for students. We provide them ample opportunities for giving expression on their inner literacy, creative and artistic talents, as well as sportsmanship. In order to pursue professional or career development to be successful you need to have all types of facilitated learning opportunities ranging from degree to formal course work, industrial practical training, Teaching Practice, Village stay programme, hospital training and informal learning. An integrated approach covering all these vital aspects of learning is provided to the students at St. Joseph University in Tanzania due to the availability of high level of infrastructure facilities and well-experienced and qualified professional teaching cadre. We wish our students to be well educated and well trained and to become responsible citizens. You will be happy to know

that the track record of achievements of our alumni is indeed commendable. Hundreds of our past students have proved their mettle in different spheres of industry. We are sure that in due course you will aspire towards joining the club of these select ones. We are here to help you nurture and realize your dreams. So, let us work together and make your Endeavour to build up your blooming career. I wish you all the best in your future career as the students of this University. Affectionately,

Vice Chancellor

4. UNIVERSITY PROFILE

4.1 Introduction

St. Joseph University In Tanzania (SJUIT) is a full-fledged University accredited by the Tanzania Commission for Universities (TCU) in its order dated 21stDecember, 2011. The University is run by Sisters of Daughters of Mary Immaculate and Collaborators (DMI). The DMI and its Collaborators came to Tanzania as missionaries in the year 2003. The far sighted vision of the Founder, the missionary zeal of DMI and the President of the University Council, by their invaluable service toiled hard to make the African Mission a success. Within a short span of time the small group has turned into a formidable big organization. The DMI and its Collaborators have spread its wings another East and Central African countries by establishing the DMI-St. Eugene University in Zambia, DMI-St. John the Baptist University in Malawi, Ethiopia and South Sudan and is to launch and ignite knowledge and spread its mission in Kenya.

The University has three campus colleges namely St. Joseph College of Engineering and Technology (SJCET) and St. Joseph College of Science and Mathematics Education (SJCSME) which are located at Mbezi-Luguruni, Campus, Dar es Salaam and St. Joseph College of Health and Allied Sciences(SJCHAS) which is located at Boko campus, Dar es Salaam. The Colleges at the Mbezi-Luguruni campus offer Bachelor Degree and Ordinary Diploma programmes in various fields of Engineering and Sciences and Mathematics Education. The College at the Boko campus offers MD (Doctor of Medicine), Pharmaceutical Sciences and Nursing & Midwifery programmes. SJUIT has secured the position as the "UNIVERSITY OF CHOICE," when it comes to Engineering, ICT, Science Education, Medical and paramedical related studies in Tanzania. SJUIT is a University of choice, not just for students alone, but also for parents alike, as well as for the labour market. The graduates of St. Joseph University in Tanzania are well sought in the labour market for their mantle, discipline and dedication. SJUIT produces the leaders of the country who are well-known for their discipline, knowledge,

skills, loyalty and integrity. SJUIT boasts of a team of professionals who dedicate their time in the development of the youth. The team is drawn from local and international experts alike. The University has become a destination "WHERE YOUR DREAMS ARE NURTURED."

SJUIT has well established Vision, Mission, Policies, Goals/objectives and guidelines for its governance. The goals, policies and guidelines conform to the mission and vision of the University.

4.2 Vision and Mission

Vision

To Spearhead Employable Education in Africa and Become part of its History

Mission

Capacity Building of Children of Africa to meet the Emerging Challenges happening in the World, by imparting Quality Employable Education with Discipline which leads to Self – Enlightenment and Development of the Nation.

4.3 Accreditation and Institutional Affiliation

The St. Joseph University In Tanzania and all the Degree programmes it offers are recognized by the Tanzania Commission for Universities (TCU), whereas the Diploma and Certificate programmes are recognized by the National Council for Technical Education (NACTE).

The Degree and Diploma programmes in Engineering are recognized by the Engineers Registrations Board of Tanzania, whereas the Degree in Medicine is recognized by the Medical Council of Tanganyika. The Diploma in Pharmacy is accredited by the Pharmacy Council of Tanzania and the Diploma in Nursing is accredited by the Tanzania Nursing and Midwifery Council.

SJUIT is also a member of various Associations; including the Inter-University Council of East Africa (IUCEA), Committee of Vice Chancellors, Principals and Provosts in Tanzania (CVCPT) and the Tanzania Association of Private Universities (TAPU).

4.4 University Governance

The daily operations of SJUIT are directed by the Vice Chancellor, who works closely with the Deputy Vice Chancellor for Academic, Research and Public Engagement, the Deputy Vice Chancellor for Resources Management and Administration, the University Bursar, College Principals and Heads of Departments. SJUIT community is diverse, as academic staff and students' body come from different nationalities and cultural backgrounds.

5. STUDENTS WELFARE

5.1 Students Administration

Students' administration at the University is headed by the Dean of Students (DoS) who deals with students' governance and students' general welfare, including disciplinary matters, social and academic life at the University. The DOS is assisted by Campus College Assistant Deans of Student's (ADOS) who are appointed for each campus, and serve under the Office of Dean of Students in both campuses. The Office of Dean of Students assists and guides students in their daily life issues/challenges so as to create a conducive learning environment.

The following other services are provided by the office of Dean of Students: games and sports, advisory and counseling and student's disciplinary matters. The Dean of students also coordinates health services, canteen and student's accommodation.

The Office of Dean of Students also renders and supervises counseling services to individual and/or group of students as need arises. DoS reports to the Deputy Vice Chancellor Resources Management and Administration.

5.2 Students Organization of St. Joseph University In Tanzania(SOSJUIT)

Most of students' governance and activities are organized by the Students Organization of St. Joseph University In Tanzania (SOSJUIT), which is an official representative Union of students of St. Joseph University In Tanzania in all campus colleges. All registered students are automatically members and enjoy all the rights and privileges granted to this body under its Constitution. A students' Organization fee of Tsh 10,000 is paid annually by each student.

The students' organization is established to contribute to the improvement of quality of life of students at the University campus colleges academically, socially and through recreational activities. It also fosters unity through establishment of a student's Union government where students from all campus colleges converge and work together as a University students' body; provide an effective linkage between students from campus colleges, University and college management, as well as national and global institutions.

Medical students are members of Tanzania Medical Students' Association (TAMSA) and pharmaceutical students are members of Tanzania Pharmaceutical Students' Association (TPSA).Students are also encouraged to form extracurricular activities with a view to develop their personality/profession. Opportunities are provided through various clubs, whose activities are guided and coordinated by experts. Students are also encouraged to form and join academic and professional organizations.

5.3 SJUIT Student's By-Laws

DMI-St. Joseph Group of institutions believes that the time for university education is mainly a period where the character of any individual is formed. Hence a lot of emphasis is placed on this Students' by-laws are made to maintain a good teaching and learning environment and to protect students

and the University from actions which will damage the University academic reputation and its members. A SJUIT student handbook which contains by laws is provided to all 1st year students during the orientation programme conducted immediately after registration.

The handbook is divided into three parts namely:

a) Regulations of the curricula.
b) Code of conduct.
c) By-laws (offences and penalties)

All 1st year students are encouraged to get and thoroughly read the Students Handbook.

5.4 Students Participation

Class Representatives (CRs) and SOSJUIT Leaders participate in various University decision making organs. The aim for students' participation through their representatives is not to defend students who violate University Regulations and Students By-Laws, but to allow for students views to be heard and assist the University in making fair and just decisions that take into account student welfare.

5.4.1 Class/Course Committees.

The Committee consists of staff and Class Representatives (CRs). The committee's functions are mainly quality control with ultimate goal of improving teaching and learning process. It identifies problems faced by students; clarify academic regulations and weighting of assessments; and problems encountered in achieving course learning outcomes.

5.4.2 Students Disciplinary Committee.

In exercising disciplinary action against who violate University Regulations and Students By-Laws, disciplinary panels are constituted in which one student representative nominated by the SOSJUIT is included.

5.4.3 University Examination Board/Senate/Council.

SOSJUIT Leaders represent students in these higher University decision

making organs.

5.5 Students Accommodation

Reasonably decent, safe and affordable accommodation close to the University is an important factor in the student's life and performance. Although University accommodation is not guaranteed for all students, a limited number of rooms are available for girls and students with special needs in hostels run by the University. A non-refundable fee is collected on an annual basis.

There are private hostels in the nearby areas which accommodate students at reasonable prices at both Mbezi and Boko. The University also encourages private companies and individuals in the neighborhood to invest in modern student accommodation facilities so as to cater for the growing demand for such facilities, and already some have started building.

An official survey of some hostels conducted recently by the Office of Dean of Students indicates availability of sufficient accommodation in hostels and houses owned and run by private companies and individuals in nearby areas of the University campus colleges. The survey looked into the following:

- Name, location, capacity, rooms-self-contained/furnished, rental fees per room/person.
- Security/availability of manager/caretaker/guard, student/tenancy agreement, fencing, with gate and separated from family house.
- Cleanliness/Health related facilities, source of water-DAWASCO/refill/well, environment, garbage disposal, gardening, washing place and cloth- line.
- Availability of catering services/pricing/availability of running-water, etc.

A list of reasonably GOOD hostels with reasonable price, availability of basic needs, rules and regulations for student safety is available at Dean of Students Office.

5.6 Advisory/Counseling Services

The Campus College Assistant Dean of Student's (ADOS) linkup with

departments staff advisors. In order to assist students in planning their courses of study and for general counseling on the academic programme, the Head of the Department concerned will allot a certain number of students to an academic staff of the Department who shall be the Students' Academic Adviser for that set of students throughout that particular year.

The Students' Academic Adviser shall advise on academic and social issues, and monitor the courses taken by the students, check the attendance and progress of the students assigned to him / her and counsel them periodically. If necessary, the Students' Academic Adviser may also discuss with or inform the parents/guardians/sponsors about the progress of the students.

5.7 Catering Services

Catering services at the University are commercialized. Students are required to pay cash for their meals. The cafeteria services are outsourced, that is, they are offered by private catering service providers who have been approved by the University. Meals are served on commercial basis where a student has to pay for meals on a reasonably cheaper fixed charge. Catering services can be offered by the service providers to conference and seminar participants on cash basis upon special arrangements.

There are of course other canteens and restaurants close to each campus college where meals are served, but these are not under control whatsoever by the University. Students are therefore advised to use the catering services approved by the University.

5.8 Games and Sports

A health body and mind requires a balanced diet and physical exercises. Both Mbezi and Boko have sporting facilities such as track field, soccer pitch, basketball court and a gymnasium where physical exercises take place. SJUIT students participate in the Tanzania Universities Sports Association (TUSA) and on several occasions won many medals and trophies. Students are

encouraged to participate in intra and inter-college, Universities sports and games.

5.9 Global Institutional Learning and Training Programme (GILT)

Global Institutional Learning and Training under aegis of St. Joseph University in Tanzania is a twining programme which offers a chance for students to visit another country and spend two semesters /one academic year at the campus abroad where the student is exposed to different economy, culture, environment, modern industry and management practices.

All these are covered under the same tuition fee paid to the University. The student has to bear travel/boarding and lodging expenses. This twining programme gives an international exposure to students and enriches their skills and profile.

5.10 Common Dress Code

Students should always wear their ID cards when on campus except in their hostel rooms. Special Coats, White and Blue, are Common for both gender for Lab work. White over coat is exclusively meant for Computer, Electrical, Electronics, Medical, Biology, Chemistry and Physics Labs, while Blue over coats shall be worn for Workshops and Civil Labs.

Nursing male students wear white shirts and white trousers. Nursing female students wear pink with white color dress. Pharmacy male students put on dark blue trousers with white short sleeves shirt; while pharmacy female students wear dark blue dress which are long up to just beneath the knees. All trousers and gowns must be cotton and not jeans or cadet as curricula demand. Shoes are compulsory for all students on all working days. Indecent and undesirable dresses carrying political, abusive, obscene, commercial and religious slogans; dresses designed in a provocative or vulgar mode; dresses carrying suggestive pictures, photographs and invitations for mischief are strictly prohibited and liable for strong disciplinary action.

5.11 Medical Services

The University owns and operates a Health Centre facility at each Campus College, which provides for medical and health care services to students, staff members and to the general public from the neighboring community. The health center at Mbezi is located on campus, while students from Boko campus are encouraged to visit Mbweni Hospital for medical services. The Health centres have full-time Medical Officers and full-time Nursing staff and they accept patients using NHIF as well.

General outpatient clinic operates on 12-hour basis from Monday to Friday. Students who fall sick are attended at a reasonable fee. The University Health Centres provide for referral of cases, where necessary, to relevant regional referral hospitals or Muhimbili National Hospital. University students and staff are required to join the National Health Insurance Fund (NHIF) or any other health insurance which guarantees the medical treatment at the University Health Centre.

Upon admission, all students are required to pay an Annual Health Insurance fee of Tshs. 50,400.00 or produce evidence of other health insurances to receive medical services based on production of identity cards for these health insurances. Personal hygiene and environmental sanitation are among the key preventive strategies. All new students are required to furnish the University with a satisfactory medical report, including a chest X-ray from a recognized medical practitioner or medical officer.

5.12 Library Services

The University has two libraries; one is located at Mbezi-Luguruni campus in Dar-Es-salaam and the second one at its campus of Boko, also in Dar es Salaam. The two academic libraries have the role of providing information services to support teaching, learning, research and consultancy.

The libraries serve three colleges; the one at Mbezi-Luguruni services two

colleges: Engineering and Technology and the College of science and mathematics Education. The library at Boko serves the Health and Allied Science College. These libraries are run by professional librarians assisted by trained and experienced library assistants. They have very rich information resources of various formats, both prints and non-print materials such as textbooks, reference books and a special reserve collection, journals, project reports, maps, dissertations, periodicals and newspapers. Non-prints such as CD-ROMS, Internet services to access information from sources such as E-Books and E-Journals and other resourceful websites.

The libraries provide lending services, reference services, internet, E-mail and Selective Dissemination of information, Current Awareness services and other electronic information services to its users. Mbezi-Luguruni campus library has a book stock of 60,133 whose books are relevant to the two college programmes. Boko campus library has 14,291 are relevant to MD, Nursing and Pharmacy programmes including electronic information services which enrich the digitalized library that serves the teaching staff, students, research workers and other library users in the community.

Library opening hour

Monday to Friday: 8.00 am to 8.00 pm,

Saturdays: 8.00 am to 1.00 pm,
On Sundays and Public Holidays the library is closed.

5.13 Placement and Training Cell

The College has already established a Placement and Training Cell to achieve the ultimate goal of developing and preparing the students for good placement encourage them to become entrepreneurs. The Placement and Training Cell conducts frequent training for the students to match with the prevailing industrial requirement and soft skills so as to get the students placed in their

dream job or to become a successful teacher or to become a successful entrepreneur.

6. THE INNOVATION AND TECHNO-PRENEURSHIP ACCELERATION FACILITY (ITAF)

SJUIT recognizes that the Fourth Industrial Revolution (the information age) demands thinking creatively and the future of education will need to strategically utilize the "Internet of Things" to prepare the coming workforce for the challenges ahead. Similarly, in shaping future technology and preparing future workforce universities have a role to serve as test-beds for innovation.

Therefore, to stimulate, catalyse, develop and promote innovation, SJUIT has put in place a mechanism for instilling entre- and/or techno-preneurship thinking and mindset among both staff and students in order to ensure appreciable contribution to the socio-economic transformation of Tanzania. This Unit/mechanism is known as Innovation and Entrepreneurship Acceleration Facility (ITAF) which will also enable both students and staff to become innovative, enterprising, entrepreneurial, and competitive. Through this mechanism SJUIT hopes to contribute appreciably to employment generation, self-employment, and the development and growth of the local industry.

The facility will have various components including; Business idea development and competitions programmes, Technology-cum-Business Incubators (TBI), Talents Show-case and Exhibitions facility and Prototyping Workshop. The TBI is designed to enable further development, fine-tuning and nurturing of business ideas, technological products, and industrial and business solutions. The objective of the TBI facility is to catalyze the development of spin-offs and start-ups of competitive technological businesses for possible final roll-out. Matters related to intellectual property rights will be handled by the Intellectual Property & Technology Transfer Office which will be part of the ITAF.

The Talents Show-case and Exhibitions facility is intended to provide a platform for exposing and bringing to light the talents of students and faculty in developing tangible products, and industrial and business solutions to address real needs, problems and challenges confronting the society and industry. It is also intended to be a platform for connecting and linking SJUIT students to potential employers and the labour market generally. Students will be encouraged to poster-exhibit the outcomes and display prototypes of their research and innovation work at this platform. The platform will be popularized and all visitors to SJUIT will be encouraged to visit it.

7. WORSHIP AND SPIRITUAL COUNSELING

Worship depends on a right spiritual or emotional or affectionate heart-grasp of God's supreme value. So true worship is based on a right understanding of God's nature and it is a right valuing of God's worth.

Although SJUIT is owned by the Registered Trustees of Daughters of Mary Immaculate and Collaborators (DMI) and thus founded on Roman Catholic Christian values and principles, students from all walks of life are welcome and have equal opportunity to academic and related services. It is intended that the University community will be comprised of individuals from a wide range of ethnic, national and religious backgrounds, reflecting the diversity. The Chaplain Coordinates spiritual exercises and needs of the University community. Places of Worship are available in the vicinity for students of different religious denominations.

Spiritual counseling is reflective listening and faith-filled prayer that helps remind an individual that we are immersed in the Spirit and God is always present in every situation, as a constant resource and a mirror to guide us in what needs to be healed or learned. The following worship and counseling activities take place within the University:

- Holy Eucharistic celebration on Every Mondays, Thursdays and Sundays
- Pray services for other denominations are conducted on every Tuesdays

and Fridays.

- Sacrament of Reconciliation on Fridays and before Eucharistic Celebration
- Recollection on every month
- Pilgrimage once in a semester
- Spiritual counseling periodically
- Visiting Orphanage centers
- Musical Concert
- Prayer and Worship: Ecumenical Meet

8. SECURITY AND SAFETY MANAGEMENT SYSTEM

The University Security and Safety Management Systems consist of a Private Security Company with which the University has concluded a security services agreement for ensuring security services at the campuses premises are provided at all times in 24 hours.

All students are however cautioned to secure themselves, their colleagues and their properties by instilling in their minds the attitude of being always alert with security consciousness, spirit and self-awareness against unpredicted crimes. In case of any theft or security threats, students are required to raise alarm by timely informing the relevant University authorities or the police.

The nearest police station is Gogoni Police Station for Mbezi campus and Mbweni Police station for Boko campus. Whenever police assistance is needed, students are advised to report immediately by using the following telephone numbers: 112 or 911.
The campuses are also equipped with security walls and CCTV cameras.

9. SHOPPING FACILITIES

There are basic shopping facilities around the main campus colleges run by private individuals. There is a major Shopping Mall at Mlimani City, which is

located at 17km from main campus. Major Banks, Bureau de Change, travel agents and mobile telephone service providers are located in the mall. For the St. Joseph College of Health and Allied Sciences, the Kibo Shopping Complex is a closest facility to the college.

10. STATIONERIES, PRINTING AND PHOTOCOPYING

There are a number of stationeries, printing and photocopying services situated around the main campus and the St. Joseph College of Health and Allied Sciences run by private individuals, which offer reasonable price to SJUIT staff and students. Almost all major academic units and offices have photocopying facilities, which are dedicated to staff members, other printing, photocopy and stationery services are operated by private enterprises and are located in the campus colleges.

11. BANK SERVICES

SJUIT staff and students can access bank services from Exim bank and other banks which have their branches and ATM services around the Mbezi-Luguruni Campus. At the Boko campus bank services can be accessed from the nearby Kibo shopping complex.

12. PRINCIPAL ADDRESS OF THE UNIVERSITY

12.1. St. Joseph University In Tanzania (SJUIT)

P.O. Box No: 11007, Dar es Salaam, Tanzania.

Phone: +255 689304186, +255 686312811

Email: vc@sjuit.ac.tz

admission@sjuit.ac.tz

Website: www.sjuit.ac.tz

CAMPUS COLLEGES:

12.2. St. Joseph College of Engineering and Technology

P.O.BoxNo:11007,

Morogoro Road, Mbezi Luguruni,

Dar es Salaam, Tanzania.

Phone No: +255686312813, +255686312809

Email: principal_sjcet@sjuit.ac.tz

12.3. St. Joseph College of Sciences and Mathematics Education

P.O.BoxNo:11007,

Morogoro Road, Mbezi Luguruni,

Dar es Salaam, Tanzania.

Phone No: +255719223952, +255686312809

Email: principal_sjcsme@sjuit.ac.tz

12.4. St. Joseph College of Health and Allied Sciences

P.O.Box:11007,

Boko-Dovya, Bagamoyo Road,

Dar es Salaam, Tanzania.

Phone No: +255689312861, +255686312802

Email: sjchs@sjuit.ac.tz

13. MEMBERS OF THE UNIVERSITY COUNCIL

S.No.	NAME	DESIGNATION	POSITION IN COUNCIL
1	Dr. T.X.A Ananth	President, University Council	Chairperson
2	Hon. Gertrude Mongella	Eminent Person	Member
3	Rtd. Gen. John Minja	Retired Commissioner General of Prisons (CGP)	Member
5	Prof. Sylvia Temu	Professor, UD Business School, UDSM	Member
6	Rev. Sr. GnanaSelvam	Managing Trustee, DFT-Chennai, India	Member
7	Prof. David Ngassapa	Professor, Muhimbili University of Health and Allied Sciences (MUHAS)	Member
8	Rev. Fr. Henry Rimisho	Lecturer, Ardhi University	Member
9	Dr. Adolf B Rutayuga	Executive Secretary, NACTE	Member
10	Adv. Erasmus Buberwa	Partner at Upright Attorney – Corporate Counsel	Member
11	Mrs. Valentina Kayombo	International Civil Aviation Organization (ICAO), Nairobi	Member
12	Eng. Patrick Barozi	Engineers Registration Board (ERB), Tanzania	Member
13	Dr. Richard Masika	Rtd. Rector, ATC	Member
14	Muhamad Mringo	Chairman & CEO Paradigms Institute Ltd.	Member
15	SJUIT Academic Staff Assembly Representative	St. Joseph University In Tanzania Academic Staff Association	Member
16	Students Organization Representative	St. Joseph University In Tanzania	Member

14. PRINCIPAL OFFICERS OF THE UNIVERSITY

Chancellor andFounder of the University

Rev.Fr.Dr.J.E.ArulRaj

President- University Council

Dr. T. X. A. Ananth

Vice Chancellor

Vacant

a. **Legal Counsel & Secretary to Council (LC-STC)**

   Advocate Erasmus Buberwa

b. **Director, Quality Assurance Bureau**

   Dr.Wema.W. Wekwe, BSc. (Eng.) - Chemical and Process Engineering, MSc. (Chemistry), PhD. (Chemical Engineering)

c. **Internal Auditor Unit (IAU)**

   Vacant

d. **Director ofCommunications, Marketing & Public Relations (CMPR)**

Senate Members:

1. Prof. Innocent F. Ngalinda, Vice Chancellor, Chairperson
2. Prof. Eliab Z. Opiyo, Ag. DVC- ARPE
3. Prof. Bosco Bharathy Jesuraja, Ag. DVC- RMA
4. Dr. Richard J. Masika, External, Council to Senate
5. Dr. David P. Mnzava, External, MCT
6. Eng. NgwisaMpembe, External, IET
7. Ms. Agnes J. Mjawa, External, NAMCT
8. Prof. Bernadeta Killian, External, DUCE
9. Rev. Sr.Soosai A. Vijilidali, External, Mission Director
10. Fr. Julians M. Vinoth, External, MMI
11. Prof. G. Bhaskara Raju, Assistant Director, PAC

12. Prof. Eliab Z. Opiyo, Principal, SJCET
13. Dr. Kassimu A. Nihuka, Principal, SJCMSE
14. Prof. Roger L. Mbise, Ag. Principal, SJCHAS
15. Dr. Laurence J. Kerefu, DITAF
16. Dr. Wema W. Wekwe, DOQAC
17. Mrs. Monica A. Nkhoma, Director, MIITEM
18. Mrs. Adela P. Njau, Dean of Students
19. Mr. Aravind S. Rajeshwari, Deputy COE
20. Prof. Bosco B. Jesuraja, SJCSME
21. Dr. Prabakaran Narayanan, SJCET
22. Mrs. Truphina N. Nsemwa, library Assistant
23. Rev. Sr. Antoniammal Manual, Bursar, SJUIT
24. Fr. Kranthi K. Konde, Estate Manager
25. Prof. Japhet N. Minjas, SJCHAS
26. Two representatives of the students Organization

Ag. Deputy Vice Chancellor for Academic, Research and Public Engagement (ARPE)

Prof. Eliab Z. Opiyo - BSc in Engineering (Mechanical), MSc in Mechanical Engineering, PhD (Industrial Design Engineering)

a. The Director of Undergraduate Studies

Vacant

b. Controller of Examinations.

Dr. Ignatius A Herman

c. Director of Research and Postgraduate Studies

vacant

d. Director of ICT Resource Centre (ICT-RC)

Vacant

e. **Director of Innovation & Techno-Preneurship Acceleration Facility (ITAF)**

Dr.Lawrence Joseph Kerefu, BSc. Mechanical Engineering, Master of Engineering Design, PhD. Engineering Management (Innovation)

f. **Director ofUniversity Knowledge &Information Resources (Libraries)**

Ms. Truphina Nsemwa, Diploma in librarianship, BA (Library Information Studies)

Ag. Deputy Vice Chancellor for Resources Management and Administration (RMA)

Prof. Bosco Bharathy Jesuraja, Ag. DVC- RMA BSc (Chemistry) MSc (Chemistry), PhD (Chemistry)

a. **Director of Planning, Development & Monitoring (PPDM)**

Vacant

b. **University Bursar**

Rev.Sr. Antoniammal Manual, BA, MA, MBA (Finance)

c. **Director, Human Resources Management and Administration**

Patrick A.A. Chuwa, BA(Political Science), MPA (HRD)

d. **Dean of Students**

Mrs. Adela Njau, BSW, MA (Sociology)

e. **Manager, Estates & Assets Management & Maintenance (EAMM)**

Fr. KranthiKonde, BA (Philosophy)

Principal, College of Engineering and Technology

Prof. Eliab Zephania Opiyo, BSc in Engineering (Mechanical), MSc in Mechanical Engineering, PhD (Industrial Design Engineering)

Deputy Principal, College of Engineering and Technology - ARPE

Dr. Bashira Alli Majaja, BSc (Engineering), MSc (Engineering), Ph.D. (Agricultural Machines)

Deputy Principal, College of Engineering and Technology - RMA

Dr. Prabakaran Narayanan, BSc (Comp. Sc.), MSc (Comp.Sc.), Master of Technology (CSE), PhD (Computer Science)

a. **Head of department-Civil Engineering and the Built Environment**

   Dr. Richard Mwaipungu, FTC, MScin Civil andIndustrial Engineering, PhD in Civil Engineering

b. **Ag. Head of department-Mechanical Engineering**

   Mr. Jayaram Dasari; BE in Mechanical Engineering, ME in Mechanical Engineering.

c. **Head of department-Electrical Electronics and Communication Engineering**

   Dr. Prabharan Paulraj, BE, ME, Ph.D

d. **Head of department-Computer Science and Information Systems Engineering**

   Dr. Amani Hassan Bura, BSc (Comp.Sc.), MSc (Comp. Sc.), Master of Technology (CSE), PhD (Computer Science)

Principal, College of Sciences and Mathematics Education:

Dr. Kassimu A. Nihuka, B.Sc. (Biology), M.Sc. (Education), PhD (Education)

e. **Head of department-Basic Sciences**

   Dr. Bosco Bharathy Jesuraja, BSc (Chemistry), MSc (Chemistry), PhD (Chemistry)

f. Ag. Head of department- Education

Mrs. P. LathikaImmanuel, BSc(Mathematics), MSc(Mathematics)

Ag. Principal, College of Health and Allied Sciences, Boko, Dar es Salaam

Prof. Roger L. Mbise, Degree of Bachelor of Medicine and Bachelor of Surgery, Degree of Master of Medicine, Degree of Master of Science.

g. Head of Department- Pathology

Prof. Fred S. Mhalu, MBChB, Certificate in Immunology, Dip.Bact, M.R.C.Path, F.R.C.Path, Dr. Med (Hon)

h. Head of Department-Medicine

Prof. Roger L. Mbise, Degree of Bachelor of Medicine and Bachelor of Surgery, Degree of Master of Medicine, Degree of Master of Science

i. Head of department-Public Health and Community Health

Dr. Dominick Tibyampansha, Degree of Bachelor of Medicine and Bachelor of Surgery, Master of Public Health

j. Head of Department-Biomedical Sciences (BMS)

Prof. Elizaveta V. Popova, Doctor of Medicine (MD), PhD

k. Head of department- Surgery

Prof. Naboth Almas Mbembati, Doctor of Medicine (MD), MMed

l. Head of department-Nursing

Mr.S.A.Jegan John Kutty, Diploma in Critical Care Nursing, B.SC Nursing, MBA (HR)

m. Head of department - Pharmacy

Husna A. Mbarak, Bachelor of Pharmacy, Master of Pharmaceutical Analysis

15. GENERAL MINIMUM ENTRANCE REQUIREMENTS FOR DIRECT AND EQUIVALENT ENTRANCES

15.1 General Minimum Entry Requirements for Engineering and Bachelor of Sciences with Education Programmes

S/N	Category of Applicants	Minimum Admission Entry Qualifications
1	Completed 'A' Level Studies before 2014	Two principal passes with a total of 4.0 points in Two Subjects defining the admission into the respective programme (where A = 5; B = 4; C= 3; D = 2; E = 1; S = 0.5)
2	Completed 'A' Level Studies in 2014 and 2015	Two principal passes ('C' and above) with a total of 4.0 points from Two Subjects defining the admission into the respective programme (where A = 5; B+ = 4; B = 3; C= 2; D = 1; E = 0.5).
3	Completed 'A' Level Studies from 2016 onwards.	Two principal passes with a total of 4.0 points in Two Subjects defining the admission into the respective programme (where A = 5; B = 4; C= 3; D = 2; E = 1; S = 0.5)
4	Ordinary Diploma, FTC and Equivalent Qualification Applicants.	At least four passes ('D's and above) at O' Level or NVA Level III with less than four O' Level passes or equivalent foreign qualifications as established by either NECTA or VETA; AND
		At least a GPA of 3.0 for Ordinary Diploma (NTA Level 6); OR
		Average of "C" for Full Technician Certificate (FTC) (where A=5, B=4, C=3, and D=2 points); OR
		Average of 'B' Grade for Diploma in Teacher Education;
		A Distinction for unclassified Diplomas and certificates

S/N	Category of Applicants	Minimum Admission Entry Qualifications
		Upper Second Class for classified non-NTA Diplomas
5	Foundation Programme of the OUT	A GPA of 3.0 accumulated from six core subjects and at least a C grade from three subjects in respective cluster (Arts, Science and Business Studies) **PLUS** An Advanced Certificate of Secondary Education Examination with at least 1.5 from two subjects OR An Ordinary Diploma from a recognized institution with a GPA of at least 2.0 OR NTA level 5 /Professional Technician Level II certificate.

15.2 General Minimum Entry Requirements for Doctor of Medicine Programme.

S/N	Category of Applicants	Entry Requirements
1	Applicants with form Six Qualification.	Three principal passes in Physics, Chemistry and Biology with minimum entry of8 points, whereby one must have at least C grade in Chemistry and Biology and at least D grade in Physics.
2	Applicants with Equivalent Qualification.	All equivalent applicants need to have a Certificate of Secondary Education Examination (CSEE) with at least five (5) passes, including two credit passes in Chemistry and Biology and a 'D' grade in Physics PLUS appropriate Diploma or Advanced Diploma with an average of "B+" or GPA of 3.5 OR BSc (lower second) majoring in Physics/Mathematics, Chemistry, Biology /Zoology.

15.3 Specific Entry Requirements per Programme

S/N	Programmes	Code	Direct Entry (Form Six)	Equivalent Qualifications
1	Bachelor of Civil Engineering	JD001	Principal passes in Mathematics and Physics at A' Level.	Holders of Ordinary Diploma (NTA level 6) / Full Technician Certificate in Civil Eng. (OR) Water Supply and Sanitation (OR) Transport Eng. (OR) relevant with minimum GPA of 3.0 along with four relevant passes at O level Certificate.
2	Bachelor of Computer Science & Engineering	JD002	Principal passes in Mathematics and Physics at A' Level.	Holders of Ordinary Diploma (NTA level 6) / Full Technician Certificate in Electronics and Telecommunication Eng. (OR) Computer Science (OR) Information Technology (OR) relevant with minimum GPA of 3.0 along with four relevant passes at O level Certificate.
3	Bachelor of Electrical & Electronics Engineering	JD003	Principal passes in Mathematics and Physics at A' Level.	Holders of Ordinary Diploma (NTA level 6) / Full Technician Certificate in Electrical & Electronics Engineering, Electrical Engineering OR Electronics Engineering OR Telecommunication Engineering with minimum GPAof3.0 along with four passes at O level Certificate and 'C' for FTC.

4	Bachelor of Electronics & Communication Engineering	JD004	Principal passes in Mathematics and Physics at A' Level.	Holders of Ordinary Diploma (NTA level 6) / Full Technician Certificate in Electrical & Electronics Engineering, Electrical Engineering OR Electronics Engineering OR Telecommunication Engineering with minimum GPAof3.0 along with four passes at O level Certificate and 'C' for FTC.
5	Bachelor of Engineering inInformation Systems & Network Engineering	JD005	Principal passes in Mathematics and Physics at A' Level.	Holders of Ordinary Diploma (NTA level 6) / Full Technician Certificate in Electronics and Telecommunication Eng. (OR) Computer Science (OR) Information Technology (OR) relevant with minimum GPA of 3.0 along with four relevant passes at O level Certificate.
6	Bachelor of Mechanical Engineering	JD006	Principal passes in Mathematics and Physics at A' Level.	Diploma/FTC in Mechanical or Automotive or Automobile Engineering, Marine Engineering, Hydrology and Water-well Drilling Engineering, Transport Engineering OR relevant with an average of'B'orGPAof 3.0forDiplomaand"C"forFTC.

7	Bachelor of Science with Education	JD008	Two principal passes from the following subjects: Physics, Chemistry, Biology, Mathematics.	Diploma in Education NTA level 6 (Science related) OR (Science) with minimum GPAof3.0 along with four passes at O level Certificate.
8	Doctor of Medicine	JDH01	Three principal passes in Physics, Chemistry and Biology with minimum entry of8 points; whereby one must have at least C grade in Chemistry and Biology and at least D grade in Physics.	Certificate of Secondary Education Examination (CSEE) with at least five (5) passes, including two credit passes in Chemistry and Biology and a 'D' grade in Physics PLUS Diploma in Clinical Medicine withanaverageof"B+"orGPAof3.5OR B.Sc. (Lower Second) majoring in Physics/ Mathematics, Chemistry, Biology/ Zoology.

15.4 Non-Degree Programmes.

Candidates wishing to be enrolled for non-degree programme of St. Joseph University in Tanzania (SJUIT) have to fulfill the minimum entrance requirements specific to each programme as indicated below:

S/N	Programme	Minimum Entrance Requirements
1	Ordinary Diploma in Civil Engineering	Holder of Certificate of Secondary Education Examinations (CSEE) with at least Four (4) passes in non - religious subjects including Physics/Engineering Science, Basic Mathematics and Chemistry; OR Holder of General Certificate in Engineering; OR Holder of Certificate of Secondary Education (CSEE) with a Minimum of pass in Basic Mathematics and National Vocational Award (NVA) Level III or Trade Test Certificate of Grade I in the relevant field offered by VETA Accredited Institution.
2	Ordinary Diploma in Computer Science and Engineering	
3	Ordinary Diploma in Electrical and Electronics Engineering	
4	Ordinary Diploma in Electronics & Communication Engineering	
5	Ordinary Diploma in Mechanical Engineering	
6	Ordinary Diploma in Information Technology	Holder of Certificate of Secondary Education Examinations (CSEE) with At Least four (4) Passes "D" in non-religious Subjects including D in Physics/Engineering Science and Basic Mathematics.
7	Ordinary Diploma in Nursing and Midwifery (NTA 6).	Holders of Certificate of Secondary Education Examination (CSEE) with four (4) Passes in non-religious Subjects including "D" Passes in Chemistry, Biology and Physics/Engineering Sciences a Pass in Basic Mathematics and English Language is an added advantage.
8	Ordinary Diploma in Pharmaceutical Sciences (NTA 6).	Holders of Certificate of Secondary Education Examination (CSEE) with four (4) Passes in non-religious Subjects including "D" Passes in Chemistry and Biology, a Pass in Basic Mathematics and English Language is an added advantage.

9	Technician Certificate in Pharmaceutical Sciences (NTA 5).	Holders of Certificate of Secondary Education Examination (CSEE) with four (4) Passes in non-religious Subjects including "D" Passes in Chemistry and Biology; AND Possession of Basic Technician Certificate (NTA Level 4) in Pharmaceutical Sciences.

15.5 Holders of Foreign qualifications

All applicants holding foreign qualifications must have their qualifications validated and equated by the respective regulatory bodies before submitting their applications for admission as follows: The National Examinations Council of Tanzania (NECTA) in respect of certificates of secondary education examination. The National Council for Technical Education (NACTE) in respect of NTA Level 6 qualifications.

16. REGISTRATION PROCEDURES AND REGULATIONS

All enquiries about admission should be addressed to:
The Director of Undergraduate Studies
St. Joseph University in Tanzania
P.O Box 11007
Dar es Salaam, Tanzania
E-mail: admission@sjuit.ac.tz
Phone: +255 784 757010, +255 713 757010, +255 689 312861,+255 686 312867

i All applicants MUST submit their applications for admission online through www.sjuit.ac.tz. Only applicants who meet the TCU minimum entry qualifications should submit their applications for Degree programmes and only applicants who meet the NACTE minimum entry qualifications should submit their applications for Diploma programmes. The entry qualifications for Degree programmes and Diploma programme

are also available at TCU website www.tcu.go.tzand NACTE website www.nacte.go.tz respectively. Applications which do not meet the minimum entry qualifications will not be processed. It is an offence to submit false information when applying for admission. Applicants found to have submitted forged certificates or any other false information will not be considered and appropriate legal actions will be taken against them. Bonafide University students are cautioned not to attempt applying for admission. If such students submit their application, they will be liable to deregistration. Likewise, former students who have already graduated cannot be admitted as undergraduate students under Government loan sponsorship.

ii All new students are required to report for the orientation programme that normally takes place during the week preceding the beginning of the new academic year.

iii Successful applicants will be registered only after they have paid the required University fees.

iv Fees once paid will not be refunded.

v All students, if accepted, are expected to abide entirely by the University regulations.

vi The deadline for registration of first year students will be two weeks from the first day of orientation week, while for continuing students it will be the Friday of the second week after the beginning of the first semester.

vii Barring exceptional circumstances, no student will be allowed to change subjects/courses later than the Friday of the fourth week after the beginning of the first semester. Transferring from one academic programme to another will be allowed only where the student has the required admission criteria for the academic programme for which transfer is being sought and a vacancy exists in that programme.

viii Students discontinued on academic grounds from one College may be allowed to apply into another College provided that the sponsor approves.

Discontinued students wishing to re-apply in the same College must show evidence of having followed further studies satisfactory to the College.

ix Students will be allowed to be away from the University studies for a maximum of two years if they are to be re-admitted to the same year of studies where they left off.

x Students discontinued from studies because of examination irregularities will be considered for readmission after they have been away for two years. They will be required to re-apply and compete with other applicants for re-admission into first year.

xi No change of names by students will be allowed during the course of study at the University and they will only be allowed to use names appearing on their certificates.

xii No student will be allowed to postpone studies after effective commencement of an academic year except under special circumstances. Permission to postpone studies will be considered after producing satisfactory evidence of the reasons for postponement and written approval from the sponsor. Special circumstances shall include: Sickness; Serious social problems (each case to be considered on its own merit); and severe sponsorship problem.

17. ACADEMIC PROGRAMMES AT THE UNIVERSITY

Undergraduate Programmes

The undergraduate programmes offered by SJUIT in its three Colleges are:

17.1 St. Joseph College of Engineering and Technology (SJCET)

17.1.1 Degree programmes Offered by the College

The Bachelor Degree programmes, listed below are of eight semesters covered in four academic years.

i. Bachelor of Engineering in Civil Engineering
ii. Bachelor of Engineering in Mechanical Engineering
iii. Bachelor of Engineering in Electrical and Electronics Engineering
iv. Bachelor of Engineering in Electronics and Communication Engineering
v. Bachelor of Engineering in Computer Science Engineering, and
vi. Bachelor of Engineering in Information Systems and Networking Engineering

17.1.2 Diploma Programmes Offered by the College

The Ordinary Diploma programmes, listed below are of six semesters covered in three academic years.

i. Ordinary Diploma in Civil Engineering
ii. Ordinary Diploma in Mechanical Engineering
iii. Ordinary Diploma in Electrical and Electronics Engineering
iv. Ordinary Diploma in Electronics and Communication Engineering
v. Ordinary Diploma in Computer Science Engineering, and
vi. Ordinary Diploma in Information technology

17.2 St. Joseph College of Sciences and Mathematics Education (SJCSME)

17.2.1 Degree programmes offered by the College

The Bachelor Degree programmes, listed below are of six semesters covered in three academic years.

i. Bachelor of Science with Education in Mathematics and Chemistry
ii. Bachelor of Science with Education in Mathematics and Computer

Science

iii. Bachelor of Science with Education in Physics and Mathematics
iv. Bachelor of Science with Education in Physics and Chemistry
v. Bachelor of Science with Education in Physics and Computer Science
vi. Bachelor of Science with Education in Biology and Chemistry

17.3 St. Joseph College of Health and Allied Sciences (SJCHAS)

17.3.1 Degree programmes offered by the College

The Bachelor Degree programme, listed below is ten semesters covered in five academic years

i. Bachelor of Doctor of Medicine.

17.3.2 Diploma programmes offered by the College

The Ordinary Diploma programmes, listed below are of six semesters covered in three academic years.

i. Ordinary Diploma in Nursing and Midwifery
ii. Ordinary Diploma in Pharmaceutical Sciences

17.3.3 Certificate programmes offered by the College

The Basic Technician Certificate and Technician certificate are part of the Ordinary Diploma. Students who wish to exit or fail to attain an Ordinary Diploma but have successfully fulfilled the requirements for awards of Basic Technician Certificate (NTA 4) or Technician Certificate (NTA 5) shall be awarded the awards qualified for.

i. Technician Certificate in Nursing and Midwifery
ii. Technician Certificate in Pharmaceutical Sciences
iii. Basic Technician Certificate in Pharmaceutical Sciences.

18. REGULATIONS GOVERNING LEARNING AND TRAINING AT THE UNIVERSITY

18.1 Schedule of Studies

Generally, the daily academic schedule of the University starts at 8.00 a.m. and ends at 8.00 p.m. The actual time is shown in the schedule at the beginning of each semester. Punctuality is demanded. There is no schedule for weekends and public holidays. However, in extenuating and unavoidable circumstances academic activities may be scheduled for weekends and/or public holidays. In such cases, full cooperation of students and staff members is expected and obligatory.

18.2 Structure of Programme

- Every Programme will have a curriculum with a syllabus consisting of Theory and Practical components.
- Each course is normally assigned a certain number of credits.
- For the award of the degree, a student has to earn a certain minimum total number of credits specified in the curriculum of the relevant branch of study.

18.3 Medium of Instruction

Unless the subject otherwise requires, the medium of instruction for all the Degree, Diploma and Certificates Programmes offered at the University is English only. The medium of instruction for Examinations and Project report will be only in English.

18.4 Semester System

Each semester is 18 weeks long. Lectures/seminar/tutorials will last for 16 weeks and the last two weeks of each semester are reserved for University examinations for Degree and Diploma programmes of SJCET & SJCSME.
Each semester is 20 weeks long. Lectures/seminar/tutorials will last for 18

weeks and the last two weeks of each semester are reserved for University examinations for Degree programmes of SJCHAS.

For Pharmaceutical Sciences and Nursing and Midwifery programmes the Academic schedule is followed from the Ministry of Health Community Development, Gender, Elderly and Children.

18.5 Examinations

Examinations include continuous assessment (tests, quizzes, assignments, seminars, presentations, practical/clinical rotations, oral tests, dissertations/project reports or any other forms of assessment specified in the study guide issued at the beginning of a Semester) and end of semester/clinical rotations/module examinations including practical and oral examination where appropriate. There shall be **written university examinations** at the end of each semester for each module taught. There shall also be practical and/or oral examinations during each end of semester for the practical modules.

18.6 Mode of Assessment

Every course module is assessed for a maximum 100 marks where the internal and external marks are aggregated into the proportions of 40-60 for theory modules and 40- 60 for practical modules whereas for Doctor of Medicine (MD) Programme it is 50-50 for both theory, and the theory cum practical modules.

18.7 Minimum Number of Students

The minimum number of students required for any particular undergraduate degree programme to run shall be ten (10). Departments wishing to run programmes with less than ten students shall first obtain special permission from the Council. The set number of students is subject to annual reviews by the Council.

19. GENERAL UNIVERSITY EXAMINATION REGULATIONS

19.1 Examinations

i. Examinations include continuous assessment (tests, quizzes, assignments, seminars, presentations, practical, oral tests, dissertations or any other form of assessment specified in the study guide issued at the beginning of each Semester) and end of Semester University Examinations including practical and oral examination where appropriate.

ii. There shall be written University Examinations at the end of each semester for each module taught. There shall also be practical and/or oral examinations during end of each semester for the module taught.

iii. Timing of examinations shall be between 08.00 a.m and 09.00 p.m any day of the week including weekends. Approved public holidays and other days when the University/College/Campus Institute is closed are excluded.

19.2 Registration for Modules

i. The students shall register for all the modules including supplementary in the third and fourth week of the semester.

ii. A candidate shall be examined in all modules registered for.

iii. For an elective module to be offered the minimum number of students shall be twenty (20) in Diploma and Degree

iv. No student will be permitted to commence any course / module three weeks after the beginning of the semester or withdraw from any course / module four weeks after the beginning of the Semester.

19.3 Eligibility for Examinations

i. The Principal of a College or Dean of School or the Director of Institute may bar any candidate from being admitted to any examination in any

subject or course or module where the Principal or Dean or Director is satisfied that the candidate has not completed satisfactorily by attendance, performance or otherwise the requirements of the subject of course.

ii. Candidates eligible for examinations shall be those fulfilling University registration, course eligibility requirements and full payment of fees.

iii. A candidate shall only be allowed to sit for the scheduled University examination(s) if he/she would have attained 85% of attendance of the course/module through lectures, seminars and tutorials; but for the practical sessions, a candidate must attain 95% attendance rate. A candidate who fails to attain at least 85% and 95% attendance rates for lectures/seminars and practicals respectively shall be required to retake the whole course/module when next offered.

iv. However, with special permission a candidate with less than 85% but not below 75% of attendance shall be deemed to have satisfied the conditions of attendance in a semester on medical or academic grounds subject to the approval of the College/Institution Academic Board / Faculty Board.

v. Where a candidate who has been barred in accordance with paragraph 3.1 or 3.2 or 3.3 enters the examination room and sits for the paper, his/her results in the paper shall be declared null and void.

vi. A candidate whose work or progress is considered unsatisfactory may be required by the Senate, on the recommendation of the appropriate College, School or Academic Institute Board to withdraw from the University or to repeat any part of the course before admission to an examination. Failure in an examination, including a session (IPT/TP) or semester examination may be regarded as evidence of unsatisfactory progress.

vii. Where a candidate who has not registered for studies or for a course sits for an examination, the examination results shall be nullified.

viii. A candidate shall be required to attend all sessions of Field / Industrial Practical Training (IPT) or Teaching Practice (TP) and if a candidate misses any session without the permission of the Dean or Director or

Head of Department or his appointee (i.e. IPT/TP supervisor) shall be discontinued from studies. In case permission for being absent from FPT or TP is granted, the candidate shall be required to complete the training session using own resources.

19.4 Absence from Examination

(i) A candidate who absents oneself from an end of semester examination without compelling reasons shall be deemed to have absconded from the examination and shall be discontinued from studies.

(ii) A candidate who absents oneself from any continuous assessment test or fails to submit assignment(s) given as part of the coursework without compelling reasons shall be considered to have attempted such examinations or assignment(s) and shall be awarded a zero mark.

(iii) A candidate who fails to submit an assignment on time without compelling reasons may be penalized according to a penalty marking system pre-indicated in the course outline by instructor.

(iv) A candidate who fails to sit for a continuous assessment test(s) or submit (an) assignment(s) because of compelling reasons shall be required to complete the same before attempting the end of semester examination(s) of the respective course. Such a candidate shall be responsible for initiating a request for the continuous assessment test or assignment.

(v) A candidate allowed to be absent from the end of semester examination (s) shall carry forward the examination(s) as incomplete and shall have to sit for the respective examination(s) during the subsequent examination session conducted in the second week and third week of the next semester.

(vi) Permission for postponement of end of semester examination(s) shall be granted by the Deputy Vice Chancellor for Academics, Research and Public Engagement in consultation with the Principal/Dean of Students/Head of Department, and, where applicable, the Resident

Medical Officer.

(vii) Postponement of course assessment tests shall be granted by the course instructor and reported to the Head of Department/Dean of Faculty/Director of Institute/ Directorate/ Centre.

(viii) Request for postponement of end of semester examination(s) or course work assessment tests shall be made by submitting the prescribed Examination form along with a covering letter.

19.5 Assessment Criteria for Various Components of Examinations

The pass mark shall be 40% for practical and 40% for theory, separately. There shall be no compensation of marks scored in one paper for another paper. Assessment of courses which have no practical components (Theory Modules) shall be done as follows:

(i) Take-home essays and/or assignments shall account for 20% of the end of semester marks for the course.

(ii) Tests/quizzes during the semester shall account for 20% of the marks or 30% of the marks for courses without assessed seminar reports and/or presentations, with weightage of each test/quiz being proportional to time allocated for the test/quiz.

(iii) Seminar reports and presentations where applicable shall account for 10% of the end of semester marks for the course

The final written paper shall account for 60% of the end of semester final mark for the course.

Assessment of courses that have also practical components (Theory cum Practical module) during the course but no end of practical examination shall be done as follows:

(i) Students' reports on practical conducted and practical work shall carry 10% of the assessment

(ii) Take-home essays and assignments that will be given at appropriate stages during the semester session will carry 10% of the assessment.

(iii) Tests and quizzes which will be given at appropriate stages during

the semester session will carry 20% of the assessment and the weightage of individual assessment tool will be proportional to time allocated to it.

(iv) The final written paper shall account for 60% of the end of semester final mark for the course.

Assessment of courses that have practical components (Practical Module) only during the course and end of practical examination shall be done as follows:

(i) Students' reports on practical work shall carry 20% of the assessment

(ii) Practical test[s] conducted in each semester shall carry 20% of assessment

(iii) The end of semester practical examination account for 40% of the semester final mark for the subject.

(iv) The end of semester oral examination account for 20% of the semester final mark for the subject.

Assessment of Research Project (Project Work Module) course shall be done as follows:

(i) Student's research project work Report shall carry 40% of the assessment.

(ii) The end of semester student oral examination on research project work by student's oral presentation shall carry 20% of the assessment.

(iii) The end of semester student research project work evaluation examination on research project work by student's oral presentation and demonstration shall carry 40% of the assessment.

Assessment of Field Practical Training (Industrial Practical Training Module) course shall be done as follows:

(i) Student's industrial practical training work Report and Diary (Form E) shall carry 20% of the assessment.

(ii) Student's industrial practical training Report by the visiting Staff Advisor shall carry 10% of the assessment.

(iii) Student's industrial practical training Report by the Industrial training officer shall carry 10% of the assessment.

(iv) The end semester Evaluation of the Field Practical Training (Industrial

Practical Training Module) work shall carry 40% of the assessment.

(v) The end of semester student oral examination on industrial practical training by student's oral presentation in review work shall carry 20% of the assessment.

Assessment of Teaching Practice Training (Teaching Practice Module) course shall be done as follows:

(i) Students Teaching Practice Report work shall carry 20% of the assessment.

(ii) Students Teaching Practice Report by the visiting Staff Advisor shall carry 10% of the assessment.

(iii) The end of semester student teaching practice report of the student training officer assessment report work shall carry 10% of the assessment.

(iv) The end semester Evaluation of the teaching practice work shall carry 40% of the assessment.

(v) The end of semester student teaching practice by student teacher's oral presentation in review work shall carry 20% of the assessment.

(vi) Notwithstanding the above-mentioned apportionment of marks, there may be course- dependent variation that shall be clearly spelt out in the approved course curriculum.

(vii) At the designated semester for each degree or non-degree programme, each candidate will present a research project proposal to constitute examinable subject "Project work Phase I" which must be passed.

(viii) A candidate who fails in Project work Phase I shall be required to re-submit the research project proposal within one month of the release of the results.

(ix) Each finalist candidate shall be required to undertake a Research Project (to constitute the examinable subject "Project Work Phase II") being the execution of research project proposal developed in Research Project Work Phase I. and shall, before the start of the end- of- semester study break, be required to submit a report (in printed and electronic form) to the Head of Department in which the Research Project was conducted.

(x) The Research Project report phase II shall be evaluated. Passing in Research Project Phase II report is a requirement for the award of a degree or non-degree.

(xi) A candidate who will not have submitted the Research Project report phase II in time and without compelling reasons will be deemed to have failed in Research Project phase II (hence awarded zero mark).

(xii) In deciding whether or not to accept a Research Project report phase II that has been submitted late, circumstances leading to late submission of the Research Project report would have to be taken into consideration by the respective Department.

(xiii) A candidate who fails in Research Project II will be allowed to re-submit the report within six months from the date of the release of examination results or within such period as shall be recommended to Senate, by the board of the relevant Faculty/Institute/Directorate/Centre.

(xiv) Field practical training / Teaching practice is an essential requirement of all programmes and shall be conducted and assessed as spelt out in the respective curriculum. A pass grade in the field practical training / Teaching practice shall be required before a candidate is allowed to proceed to the next academic unit of study or to graduate in the case of a final year candidate.

For the undergraduate engineering / education programmes the following special regulations shall apply:

(i) Every Industrial Practical training (IPT) / Teaching practice (TP) shall be treated as a subject of the succeeding Semester and the results shall contribute to the particular academic unit.

(ii) Practical Training reports shall be handed in for assessment before the end of the second week of the succeeding semester.

(iii) The candidates who do not meet the minimum required marks in the internal / course work in any module will not be permitted to appear for its end semester examination of that module, and such module is declared as "**INELIGIBLE MODULE**". The candidates who have ineligible module(s) shall redo the internal / course work process in the next

higher semester so as to make the modules eligible. The candidates "**INELIGIBLE"** for all the modules should retake the whole course/module when next offered.

Marks Allotment – Engineering Degree & Degree Education Programmes:

S/N	Modules	Assessment Type		Max Marks	Min Marks	Min Total (required)	Max Mark
1	Theory	Internal	CAT's	20	8	40	100
			Assignment	20	8		
		External	End exam	60	24		
2	Theory cum Practical	Internal	CAT's	20	8	40	100
			Assignment	10	4		
			Practical	10	4		
		External	End Exam	60	24		
2	Practical	Internal	Record Work/Model Practical	40	16	40	100
		External	Demonstration	40	16		
			Viva voce	20	8		
3	Project Work	Internal	Project Report	40	16	40	100
		External	Evaluation	40	16		
			Viva voce	20	8		
4	IPTR/ Teaching Practice	Internal	Performance Report	40	16	40	100
		External	Evaluation	40	16		
			Viva voce	20	8		

Marks Allotment – Engineering Diploma Programmes:

S/N	Modules	Assessment Type		Max Marks	Min Marks	Min Total (required)	Max Mark
1	Theory	Internal	CAT's	20	8	40	100
			Assignment	20	8		
		External	End exam	60	24		
2	Practical	Internal	Record work	40	16	40	100

S/N	Modules	Assessment Type		Max Marks	Min Marks	Min Total (required)	Max Mark
		External	Demonstration	40	16		
			Viva voce	20	8		
3	Project Work	Internal	Project Report	40	16	40	100
		External	Evaluation	40	16		
			Viva voce	20	8		
4	IPTR / Teaching Practice	Internal	Evaluation	40	16	40	100
		External	Evaluation	40	16		
			Viva voce	20	8		

19.6 Dates and duration of Examinations

(i) Examinations in all Colleges, Schools and Academic Institutes shall be held at a time to be determined by Senate, which shall normally be at the end of each semester, subject to such exceptions as Senate may allow upon recommendation by a College, School or Academic Institute Board or a College Governing Board, as the case may be.

(ii) Candidates who are referred and are required to do supplementary examinations shall be re-examined in the referred subjects at a time to be determined by the Senate or in particular cases by the relevant College/School/ Institute Board, as the case may be, which shall not be less than three month after the ordinary examinations at the end of the semester in the academic year.

(iii) A candidate who, for reasonable cause, was unable to present himself/herself in the ordinary examinations may, with the special permission of Senate or in that behalf the College/School/Institute Board as the case may be, present himself/herself for examination at a time fixed for any supplementary examination.

(iv) Dates and times of conducting continuous assessments shall be determined and indicated by the respective Lecturer(s)/Instructor(s) in the course outlines or study guides or otherwise at the beginning of the Semester.

(v) All course assessments shall be carried out in time to allow results to be known to candidates at least one week before the study break preceding the end of semester examinations

(vi) Frequency of continuous assessment shall be at least two for each assessed item, e.g., minimum number of class tests is two.

(vii) Dates for the end of semester examinations shall be published in the Institute's academic calendar approved by the Academic Committee of the Council.

(viii) Duration for end of semester theory/Practical examinations shall be at least three hours.

19.7 Conduct of Examinations

(i) Overall co-ordination and control of the University Examinations shall be the responsibility of the office of the Controller of Examination (COE).

(ii) The Senate, in the manner it shall prescribe, shall appoint the examiners for University examinations.

(iii) The COE in charge shall have power to issue such instructions, notes or guidelines to candidates, invigilators and examiners of University examinations, as he/she shall deem appropriate for the proper, efficient and effective conduct of such examinations.

(iv) The instructions, notes or guidelines issued by the COE in charge under regulation 7.3 shall form part ofand be as binding as these Regulations.

(v) Subject to approval by the Senate, the Board of each College, School and Academic Institute shall make such internal examination regulation as are necessary for the proper conduct, management and administration of examinations in accordance with the specific requirements of particular degree, diploma, certificate or other award programmes of the College, School or Academic Institute, as the case may be.

(vi) End of semester examinations shall be coordinated and conducted under the control of the Dean/Director, of the respective Faculty/Institute/Directorate/Centre in collaboration with Head of Department.

(vii) All end of semester theory and practical (where applicable) examinations shall be examined for three hours. As far as possible no end of semester examination shall have sole examiner.

19.8 Examination Irregularities

(i) All cases of alleged examination irregularities, including alleged unauthorized absence from examination, possession of unauthorized material in the examination room, causing disturbances in or near any examination room and any form of or kind of dishonesty, destruction or falsification of any evidence of irregularity or cheating in examination, shall be reported to the Senate Undergraduate Studies Committee or to a College Academic Board/ Committee, which Committee/Board shall have power to summon the students and members of staff of the University, as it deems necessary and make decisions, subject to confirmation by Senate.

(ii) No unauthorized material shall be allowed into the examination room.

(iii) Subject to confirmation by Senate, any candidate found guilty of bringing unauthorized material into the examination room in any part of the examination process shall be deemed to have committed an examination irregularity and shall be discontinued forthwith from studies in the University.

(iv) Any candidate found guilty of cheating in relation to any part of the examination process shall be deemed to have committed an examination irregularity shall deem to have failed in the whole of that examination for that year and shall be discontinued from studies in the University, subject to confirmation by Senate.

(v) Candidates are not allowed to enter examination venues without the approval/permission of the invigilator(s). A candidate found to have done so shall be reported to the COE and the fate of such a candidate may include being barred from sitting for the examination.

(vi) A candidate must carry both the identity and examination number cards, which must be shown to the invigilator(s) before entering the examination room. A candidate failing to show the two cards shall not be allowed to sit for the examination and the case shall immediately be reported to the COE. Such a candidate shall be considered to have attempted and failed the respective examination (hence awarded zero mark).

(vii) A candidate must present oneself to the Invigilator(s) and for examination in a manner in which he/she can be identified and matched up with the identity and examination number cards. A candidate failing to present oneself in a manner that allows his/her identity to be determined shall not be allowed to sit for the scheduled examination and the case shall then be reported to the COE. Such a candidate shall be considered to have attempted and failed the

respective examination(s) (hence awarded zero mark).

(viii) A candidate who carries any type of unauthorized material(s) into examination premises and requests to surrender such materials to the Invigilators on his/her own accord before examination papers are distributed to candidates, shall be allowed to sit for examination after formally surrendering the items. Such a candidate shall be served with a written warning by the COE following the recommendations of the Examination Board. A candidate who will be found to have committed such an offence twice shall be discontinued from studies.

(ix) A candidate who carries unauthorized material(s) into examination premises and declares to possess them after question papers have been distributed during the examination, shall be deemed to have possessed unauthorized materials. Such a candidate shall be required to surrender the item(s) to the invigilator and thereafter allowed to proceed with the examination and other subsequent examinations during the period of investigation of the case by the Examination Board.

(x) Candidates shall not be allowed to borrow materials of any kind including calculators, rulers, statistical tables, pencils and pens among candidates during examinations. A candidate found to be involved in the act of borrowing or exchanging material(s) of any form during the examinations shall be deemed to have contravened university examination regulation and hence shall be required to surrender them to the Invigilator(s). Cases of such candidates shall be reported to the COE for investigation. Such a candidate shall however be allowed to continue with examinations during the period of investigation.

(xi) Save for medical, physiological or other justifiable reasons intimated before the start of examination, no candidate will be allowed to chew

anything while in the examination venue. A candidate found to be doing so and refuses to produce exhibit of the material being chewed will be guilty of attempting to destroy evidence of possession of unauthorized materials while in the examination venue and his/her case shall be reported to the COE for investigation by Examination Board.

(xii) Any candidate found guilty of causing disturbance or any form of chaos near any examination room shall be deemed to have committed an examination irregularity and shall be evicted from the examination room immediately and may be prohibited by the COE from sitting for subsequent examinations and have failed in the whole of that examination for that year and shall be discontinued from studies in the University, subject to confirmation by Senate.

(xiii) A candidate who starts to write before the official start of the examination as declared by the Invigilator(s) as well as one who continues to write after the official end of the examination shall be reported to the Examination Officer. Such a candidate shall be served with a letter of warning by the Examinations Officer. A candidate found to have committed a similar offence and who had been served with a letter of warning before shall be discontinued from studies.

(xiv) In some examinations, the rubric may indicate that the question paper shall be collected together with the answer book. In such cases no candidate will be allowed to go out of the examination room with an examination paper. Candidates who do not submit the question paper shall be deemed to have contravened a University Examination regulation and a valid penalty (such as non-marking of the answer book) as spelt out on the rubric shall apply.

(xv) No candidate will be allowed to go out of the examination room

with a used or unused answer book. Possession of used or unused University examination answer book(s) shall be considered as an examination irregularity. Possession of these materials by other unauthorized people who are not students shall be dealt with in accordance with the law and University regulations.

(xvi) Member(s) of staff of the same sex shall do body search of a candidate suspected of carrying unauthorized materials.

(xvii) Candidates have the responsibility of reporting any alleged examination irregularities to the COE for investigation by the Examination Board.

(xviii) The Examination Board shall investigate all cases of examination irregularities as directed by the COE upon receiving reports from invigilator(s).

(xix) The Examination Board, upon being tasked to investigate a case of examination irregularity, shall have the powers to summon candidates and members of staff, as it deems necessary.

(xx) In general, any candidate who will be proven to have cheated in any examination shall be discontinued from studies.

(xxi) All cases of examination irregularities shall be concluded within three months of reporting to the COE.

(xxii) Any candidate found guilty of commission of an examination irregularity and is aggrieved by the decision may appeal to the Senate in accordance with the provisions of regulation 17 of these Regulations.

In this regulation:

a. "Unauthorized material" includes any written or printed material that

is generally or specifically prohibited from being brought into the examination room, cellular or mobile phones, radios, radio cassette or other types of players, computers, handbags, purses, books, soft drinks (except where water is permitted) and alcoholic drinks and any other material as may be specified from time to time by the university, the Principal of College, Dean of a School, Director of an academic Institute or Head of an academic department. A candidate found in possession of unauthorized materials shall be required to surrender the material(s) to the invigilator(s) and will be allowed to proceed with the examination and the case reported to the COE;

b. "Unauthorized Attire"; No candidate shall be allowed to enter an examination venue while wearing a cap, hat, sweater, pullover, jacket or overcoat. However, under special circumstances, such as medical grounds, and upon request, the COE can grant permission for a candidate to put on such attire during the examination(s). A candidate found with such attire during examinations shall be required to surrender the piece(s) of garments and the case reported to the COE for investigation. However, a candidate shall be allowed to continue with the examination and subsequent examinations during the period of investigation;

c. "Unauthorized Writing"; A candidate is not permitted to enter examination venue with any inscriptions on any body part or clothing that can be construed as an aid to answering examination questions;

d. "Unauthorized absence from examination" includes going out of the examination room, temporarily or otherwise, or staying out of the examination room for an unduly long period, without authorization or permission of the invigilator or one of the invigilators for the examination in question;

e. "Cheating in examination" includes any form or kind of dishonesty or destruction or falsification of any evidence of irregularity;

The Senate may impose such a lesser penalty on a candidate found guilty of commission of an examination Irregularity, depending on the gravity of the facts or circumstances constituting the offence, as the Senate may deem appropriate.

19.9 Plagiarism

(i) A candidate who appropriates the writings or results of other persons, whatever the medium (text, written or electronic, computer programmes, data sets, visual images whether still or moving) and then dishonestly presents them as his/her own shall be considered as guilty of plagiarism.

(ii) A candidate shall be deemed to have committed an act of Plagiarism if a supervisor, examiner, Head of Department, member of the various committees responsible for checking and certifying compliance to approved publication standards or any other person observes the following:

(iii) The candidate has submitted or presented the work of another person as his or her own;

(iv) The candidate has submitted the same, or substantially the same work more than once at the same or another institution;

(v) The candidate has fabricated or falsified results/data;

(vi) The candidate has submitted false records, information or documents;

(vii) The candidate has omitted due acknowledgement of the work of another person;

(viii)There is collusion i.e. when two or more candidates collaborate to produce the same work submitted by each, without prior formal permission for such collaboration; and

(ix) The candidate has used, by payment or otherwise, a third party to produce Research Project report or any assignment write-up in whole or in part.

(x) All cases of alleged plagiarism shall be reported to the COE who shall refer them to the Examination Board for investigation.

(xi) Depending on the extent or seriousness of the confirmed plagiarism, the following sanctions shall be applied:

a) REJECTION of the Research Project proposal, report or part thereof and therefore the candidate being required to re-write or re-take the research work.

b) DISCONTINUATION from studies

c) DEPRIVATION of a degree, non-degree award or any other academic credentials already awarded by the university

19.10 Publication of Results

(i) The provisional results of candidates in every examination, arranged in a manner as prescribed by Senate or, on that behalf, as provided under examination regulations of the relevant University, College, School or academic Institute approved by Senate and not in conflict with these Regulations, shall be published by the COE soon after the Examination Board meeting but the results shall not be regarded as final until they are confirmed by Senate.

(ii) Publication and custody of the final approved examination results as approved by Senate shall be the responsibility of the DVC (Academic).

(iii) The results may be published on notice boards, newspapers, information systems or websites at the discretion of the relevant College/School/Institute. The anonymity of the student must be protected in publishing results e.g. using the student's registration number rather than names.

(iv) Senate shall confirm the results of examinations at a time to be determined by Senate.

(v) The final Senate-approved results for each semester and for each academic unit shall be archived in hard-bound booklet with a serial number and date andin a PDF soft copy of the same number and date.

(vi) Feedback on Coursework Assessment (CA) must be continuously provided to students and the cumulative CA marks must be shown to students before they sit for the University Examination. A copy of the students' CA marks must be submitted to the Head of Department and COE at the same time.

19.11 Progress from Year to Year for Engineering Degree and Engineering Diploma & Degree Education Programmes

(i) Candidates who are full time students are required to pass a total minimum of 120 course credits in examinations in the academic year and attain a minimum overall GPA of 2.0 before proceeding to the following year of study.

(ii) A candidate may be allowed to re-sit failed courses in Supplementary Examinations if he or she has attained an overall GPA of 1.8 or above in the First Sitting calculated in accordance with the credit weighting of individual courses. The maximum grade obtainable in a Supplementary Examination shall be the minimum passing grade i.e. 'C'.

(iii) A candidate who fails to attain an overall GPA of 1.8 will be discontinued from the courses.

(iv) A candidate who fails in examination(s) which is/are required to make the minimum pass credits for any academic unit after three attempts shall be BARRED from continuing into subsequent academic semester but shall be given the opportunity to retake the course(s) and examination(s) as last attempt when next offered. A candidate who fails to graduate because of failing examination(s) after three attempts will be given the option of retaking the course(s) and examination(s) as last attempt when next offered.

(v) No candidate shall be allowed to repeat any year of study on academic grounds, except with special permission or approval of the Senate upon recommendation of a College, School or academic Institute Board, and the Senate Undergraduate Studies Committee or a Constituent College Academic Board.

(vi) Carrying over of courses shall be guided by the following:

a) A candidate who scored an overall GPA of 2.0 or above after Supplementary Examination, may be allowed to carry over flexibly into the subsequent academic years such number of failed courses as are requisite for the fulfilment of the requirement of passing a total minimum number of course credits for the programme in compliance with regulation 11.9. The minimum overall GPA shall be calculated in accordance with the credits weightage of the individual courses.

b) Carrying over failed courses into subsequent years shall imply repeating the failed courses in the subsequent years by fulfilling all requirements of the course.

c) The maximum grade for a carried over course shall be the minimum passing grade i.e. 'C'.

d) Carryover of elective courses will only be allowed in exceptional

circumstances, normally only when those credits are needed to comply with **regulation 11.9.**

e) All carried over courses shall be cleared within the allowable maximum period of registration otherwise the student will be discontinued from studies. The maximum period of registration is five years for a programme that takes three years and six years for a four-year programme.

(vii) All candidates with pending supplementary or special examinations or with incomplete courses shall be evaluated assuming they would score the maximum attainable grade in the pending examinations and shall be discontinued from studies if they would not obtain the required minimum GPA.

(viii) A candidate with incomplete results for courses, which could not be completed by the end of the year for acceptable reasons, must complete the courses before he/she can be allowed to continue with studies of the following year.

(ix) Final year students who return to the University to clear a carryover or an incomplete shall pay tuition fees and relevant direct costs. Tuition fee shall be paid on a pro-rata basis depending on the number of course credits to be taken out of the annual 120 credits.

(x) To qualify for a degree award, the cumulative total minimum number of course credits shall be a multiple of the minimum number of course credits required per academic year under regulation 11.1 for the duration of each degree programme. That is:

a) For a three-year degree programme, such cumulative total minimum shall be 360 credits.

b) For a four-year degree programme, it shall be 480 credits

and

c) For a five-year degree programme, it shall be 600 credits.

(xi) Provided that, subject to approval by the Senate, the internal examination regulations of a University, College, School or Academic Institute, shall provide for cumulative maximum number of course credits for which a candidate may register and take for credit.

19.12 Award

A candidate shall qualify for the award registered for if:

(i) He/She has successfully completed all modules for the award and achieved a minimum cumulative Grade Point Average (GPA) equivalent to pass.

(ii) He/She has passed all industrial practical training modules / Teaching Practice / etc.

(iii) He/She has passed projects (where applicable).

(iv) He/She has paid required fees / cleared their no dues.

(v) He/She has fulfilled any other terms and conditions established by the Council.

(vi) The Board of Examiners in the University upon its satisfaction that the standard required under relevant regulations for the award of a degree, diploma, certificate or other award, as the case may be, has been attained by a candidate in University examinations applicable to him/her, may recommend to Senate through the relevant Examination Board that such degree, diploma, certificate or other award be conferred upon or granted to such successful candidate.

(vii) The Senate may confer degrees and grant diplomas, certificates or other awards of the University on or to candidates who satisfy and are recommended in accordance with regulation 13.6 for such conferment or grant by, the Board of Examiners in a College, School or academic Institute.

19.13 Certificates, Certification and Transcripts

(i) The Senate shall issue certificates for degrees, diplomas, certificates or other award to such candidates as shall be declared to have satisfied the appropriate Board of Examiners and shall have been recommended to and approved by the Senate for the conferment or grant of such degree, diploma, certificate or other award.

(ii) A certificate shall be issued only once for the same degree or award.

(iii) Upon application for a transcript, a student or former student shall be given a transcript of his/her academic performance record. The transcript shall be charged a fee as the Council may from time to time prescribe. Any finalist student desirous of obtaining a transcript(s) shall submit an application for a transcript(s), a clearance form and one passport size photograph for the preparation of transcript(s).

(iv) The final grades of all courses taken by a student shall be entered in the transcript.

(v) A student is required to verify the grades/information on his/her transcript/certificate before accepting it. Once taken, no certificate/transcript shall be returned for correction.

(vi) A fee payable as Senate may from time to time prescribe shall be charged for certifying each copy of a degree certificate and academic transcript.

(i) The MD degree is a ten-semester programme and the maximum tenure shall be 14 semesters.

(ii) Registration of full time students shall be once at the beginning of each semester.

(iii) There shall be at least one continuous assessment test (CAT) and regular assessment of competencies for each module/modular course taught during each semester. The field reports shall also be marked and graded as CAT. The CAT and the regular assessment of competencies shall constitute the Formative Assessment (FA) and the final end of module/modular course or rotation examination the Summative Assessment (SA).

(iv) The FA shall contribute 50% of the final grade in the end of module/modular course/rotation university examinations.

(v) The FA and SA shall consist of written (theory paper, quizzes, field reports, assignments, presentations and others) and practical/clinical components (global observation and rating of live/recorded performances, observation of procedures and rating, logbooks, OSPE, OSCE and others). The proportional contribution for written and practical examinations will be 60 and 40% respectively for Basic Sciences and 40% and 60% in Clinical Sciences.

(vi) A candidate will be considered to have passed a course after passing all modules/rotations of the respective course.

(vii) A candidate who passes the examination with a C grade or higher will be declared to have passed the examination. A candidate who scores a GPA of 1.6 or higher, but fails in some course(s) shall be required to supplement in the failed modules in the course(s).

(viii) A candidate who obtains a GPA of less than 1.6 in a semester shall be discontinued from studies.

(ix) A candidate who fails all the courses in an audit year regardless of the GPA shall be discontinued from studies.

(x) A candidate who fails in supplementary examination in basic sciences

shall be allowed to carry-over the failed module(s) to the next academic audit year and appear for a second supplementary examination in the failed module(s) of the respective course(s) when next offered during the long vacation provided the GPA is 1.8 or higher. A candidate who fails the second supplementary shall be discontinued from studies

(xi) No candidate shall be allowed to proceed to the clinical year rotations unless and until he/she has passed all semesters 1 to 4 of the programme.

(xii) A candidate who obtains a GPA of 1.8 or higher but less than 2.0 in a supplementary examination in semester 3 and 4 shall be allowed to freeze registration and appear for another supplementary examination when next offered and the maximum freezing period shall be 2 semesters. A student who fails to clear the failed modules/courses within the two semesters shall be discontinued.

(xiii) A candidate shall not be considered to have passed any clinical course unless and until he/she has passed the clinical components of the examination, whereby 40% is from FA and 60% from the final examination.

(xiv) A candidate who fails junior clerkship clinical rotation examination shall be required to do a supplementary rotation during the long vacation after semester 6. A candidate who fails senior clerkship clinical rotation shall be required to do a supplementary rotation after semester 10. The supplementary rotation is half the duration of that rotation. For rotations, which have less than 6 weeks duration, the period of supplementary rotation will be the full duration. The maximum tenure of 14 semesters shall not be exceeded.

(xv) A candidate with incomplete course work in any semester will not be allowed to sit for end of module/rotation examination.

(xvi) A candidate who passes a supplementary examination at any level shall be awarded a “C” grade equivalent to 2.0 grade points.

(xvii) Progression to semester 9, 10 is subject to completion of clinical rotations and elective period and sitting for University examinations for semesters 7 and 8.

(xviii) A satisfactory elective report from semester 7-8 must be submitted at least 8 weeks prior to the final semester 10 rotation examination failure of which will deem the candidate ineligible for the final examination.

(xix) A student shall be awarded the MD degree after passing all prescribed courses in the MD programme.

Examination regulations for Nursing Programme

The examination regulations include:

(i) End of semester examinations results must be released within three weeks from the date of completion of examination.

(ii) Each module taught in a semester will be examined separately at the end of semester.

(iii) A learner will be eligible for the end of semester examination if has successfully passed continuous assessments for each module.

(iv) A student must have been present for at least 85% of the classes to be allowed to sit for end of semester examinations.

Curriculum for Nursingand Midwifery NTA Level (4, 5 & 6)

(i) A learner who fails to attain 50% of continuous assessment for each module shall not be allowed to sit for end of semester examination.

(ii) A learner who did not sit for the end of semester examination for any module due to acceptable reason(s), shall have to do the examination for that module before progressing towards next semester.

(iii) A learner who attains GPA of 2.0 or above should be allowed to supplement the failed module not later than four weeks after released of results.

(iv) A learner who fails end of semester examination with GPA less than 2.0 should be discontinued from the programme.

(v) A learner who fails two supplementary examinations for any module shall be discontinued from studies.

(vi) A learner who falls seriously sick just before or during end of semester examinations or is hospitalized will be allowed to sit the examinations

when condition has stabilized; when next offered.

(vii) A learner who feels unable to attempt end of semester examination for any module for genuine reason, should present his/her case in writing four weeks before the date of end of semester examination to the Examination Committee of an institution for consideration.

(viii) A learner will be deemed to have passed the end of semester examination if has achieved a minimum of 50% of the set marks for both theory and practical examination for each module.

Examination Regulations for Pharmacy

Eligibility for Examinations

(i) A student must have been present for at least 90% of the classes to be allowed to sit for end of semester examinations.

(ii) A student who fails to meet a minimum of 90% attendance in a particular semester with compelling reasons as determined by the participatory organs shall be allowed to repeat the semester otherwise he/she shall be discontinued from studies.

(iii) No student shall be allowed to sit for the end of semester examinations unless his/her average continuous assessment in each module is 50% or higher.

(iv) A student who fails to complete assignment(s) or research work in the scheduled time shall be allowed to sit for the end of semester examinations but the results will be INCOMPLETE.

(v) Where a student who fails to fulfill the eligibility requirements stipulated, sits for the end of semester examinations, his/her examination results shall be null and void.

Conduct of Examinations

End of semester examinations shall be conducted under the control and supervision of MoHCDGEC or any other body as the MoHCDGEC shall appoint.

Guidance for Invigilators

Before the examination:

(i) Invigilators shall personally collect from the head of the department sealed envelopes containing examination papers and any other materials prescribed in the rubrics at least thirty minutes before the examination

(ii) Invigilators shall be present in the examination room at least twenty minutes before commencement of the examination.

(iii) Invigilators shall admit candidates into the examination room at least twenty minutes before commencement of the examination and ensure that candidates are seated in their right places.

During the examination:

(i) No candidate shall be allowed out of the examination room during the first thirty minutes of the examination

(ii) No candidate shall be allowed to leave the examination room during the last thirty minutes.

(iii) Invigilator shall allow five minutes for the candidates to read the examination paper and ensure they have the right paper with correct number of pages.

At the end of examination:

(i) Invigilator shall tell the candidates to stop attempting the examination and assemble their work/scripts

(ii) Candidates shall handling their scripts to the invigilator and sign an examination attendance form

(iii) No candidate shall be allowed to leave the examination room before their scripts are collected

(iv) No candidate shall be allowed to leave with any examination materials found in the examination room.

(v) Invigilators shall enter the total of scripts collected and sign in the examination attendance form (Appendix 1) and submit the scripts and the examination attendance form to the head of the department.

Absence from Examinations

(i) A student who fails to appear for a scheduled examination with valid reason (s) shall be allowed to sit for that particular examination when next scheduled. The student shall not be allowed to proceed to the next semester if the missed examination(s) is for a pre-requisite module.

(ii) When a candidate misses an examination without valid reason(s), as determined by participatory organs (i.e. academic committees/boards), the candidate shall be discontinued from the studies

Falling Sick Immediately Before or During Examination

(i) A candidate who falls sick immediately before or during the time of a scheduled examination and is medically unable to proceed (i.e. as certified by a medical officer) shall be allowed to postpone the examination until next scheduled.

(ii) Any student, who is sick and nevertheless decides to take or proceed with an examination, does so at his/her own risk and must abide by the results of the examination.

Reporting Late for Examinations

(i) A candidate, who without valid reason(s), reports late for an examination (more than thirty minutes after commencement of examination) shall not be allowed into the examination room but will be allowed to sit for that particular examination when next scheduled. The candidate shall not be allowed to proceed to the next semester if the missed examination(s) is/are for pre-requisite module(s).

(ii) A candidate, who for valid reason, reports late for an examination (more than thirty minutes after commencement of examination) and pleads in writing to take the examination may, subject to the discretion of the invigilator, be allowed to do the examination within the remaining time at

his/her own risk. All cases of late arrivals for examinations shall be reported in writing by the invigilator to head of department.

Students Progression and Disposal

(i) The semester shall be the basic academic audit unit. All modules offered during the semester shall be assessed within that semester, at the end of each module external examiners or moderators shall be invited at the end of the semester. A student shall be allowed to proceed to the next semester if he/she passes end of module examinations in all modules prescribed in a semester.

(ii) For every module there shall be at least two continuous assessment (CA) tests and regular assessment of competencies which shall constitute 60% of summative assessment. The end of module examination shall constitute another 40% of the summative assessment.

Supplementary Examination

(i) A candidate who fails one or more modules shall be allowed to sit for supplementary examination if his/her GPA in that semester is not less than 1.8.

(ii) A candidate who fails one or more modules must sit for supplementary examinations when scheduled before proceeding to the next semester. The student who passes a supplementary examination will be awarded a maximum of "C" grade regardless of his/her score (equivalent to 50% score). The passing of supplementary examination shall take into account the continuous assessment scores.

Repeating the Semester

(i) A candidate who fails to obtain an average of 50% in his/her continuous assessment shall repeat the semester.

(ii) A candidate who fails supplementary examination(s) shall repeat the semester. A candidate who fails a repeated semester shall be discontinued from studies.

(iii) A candidate who fails to meet a minimum of 90% attendance in a particular semester with acceptable grounds as determined by the participatory organs shall repeat the semester.

Discontinuation

(i) A candidate who fails to meet a minimum of 90% attendance in a particular semester without acceptable grounds shall be discontinued from studies.

(ii) When a candidate misses examination(s) without valid reason(s) shall be discontinued from the studies.

(iii) A candidate who obtains a semester GPA of less than 1.8 shall be discontinued from studies.

(iv) A candidate who does not appear for supplementary examination(s) without compelling reason(s) approved by participatory organs shall be discontinued from studies.

(v) A candidate found guilty of an examination irregularity shall be discontinued from studies.

(vi) A candidate who has been disqualified from an examination following his/her walking out of the examination room in protest shall be discontinued from studies.

GRADING SYSTEMS

NTA Level 4 & 5

GRADING SYSTEM

NTAs Level 4-5			
Score Range	**Grade**	**Grade Points**	**Definition**
80 – 100	A	4	Excellent
65 – 79	B	3	Good
50 – 64	C	2	Satisfactory
40 – 49	D	1	Poor
0 – 39	F	0	Failure
-	I	0	Incomplete
-	Q	0	Disqualified

CA – Continuous Assessment Marks, SE – Semester Examination Marks, NE – Not Eligible, NL – Nil Total, AA –
Absent, GPA – Grade Point Average (Given for the candidates who have passed in all the Modules in the current semester).

To calculate GPA

$$GPA = \frac{\Sigma \text{ (Credits x Grade Points)}}{\Sigma \text{ (Credits)}}$$

Award Classification for NTA Level 4 & 5

Class of Award	Cumulative GPA
First Class	3.5 – 4.0
Second Class	3.0 – 3.4
Pass	2.0 – 2.9

NTA Level 6

CA – Continuous Assessment Marks, SE – Semester Examination Marks, NE – Not Eligible, NL – Nil Total, AA – Absent, GPA – Grade Point Average (Given for the candidates who have passed in all the Modules in the current semester), P – Pass, F – Fail,

Award Classification for Ordinary Diploma (NTA Level 6)

Class of Award	Cumulative GPA
First Class	4.4 – 5.0
Upper Second Class	3.5 – 4.3
Lower Second	2.7 – 3.4
Pass	2.0 –2.6

Diploma final year (year-3) GRADING SYSTEM				
NTAs Level 6				
Score Range for Theory Module	**Score Range for Practical / Project / IPTR Module**	**Grade**	**Grade Points**	**Definition**
75 – 100	75 – 100	A	5	Excellent
65 – 74	65 – 74	B+	4	Very Good
55 – 64	55 – 64	B	3	Good
45 – 54	45 – 54	C	2	Satisfactory
35 - 44	35 - 44	D	1	Poor
0 – 34	0 – 34	F	0	Fail
-	-	I	0	Incomplete
-	-	Q	0	Disqualified

UQF Level 8

Degree Programme (UQF LEVEL-8)				
Score Range for Theory Module	**Score Range for Practical / Project / IPTR Module**	**Grade**	**Grade Points**	**Definition**
70 – 100	70 – 100	A	5	Excellent
60 – 69	60 – 69	B+	4	Very Good
50 – 59	50 – 59	B	3	Good
40 – 49	40 – 49	C	2	Satisfactory
35– 39	35 – 39	D	1	Poor
0 - 34	0 - 34	F	0	Failure
-	-	I	0	Incomplete
-	-	Q	0	Disqualified

CA – Continuous Assessment Marks, SE – Semester Examination Marks, NE– Not Eligible, NL – Nil Total, AA – Absent, S – Supplementary, GPA – Grade Point Average (Given for the candidates who have passed in all the Modules in the current semester). P – Pass, F – Fail, SUPP – Supplementary Theory / Practical / Project / IPTR Module Examination.

Award Classification for Degree (UQF Level 8)

Class of Award	Cumulative GPA
First Class	4.4 – 5.0
Upper Second Class	3.5 – 4.3
Lower Second	2.7 – 3.4
Pass	2.0 –2.6

Grading system for MD Programmes

Degree Programme				
Score Range for Theory Module/ Theory Cum Practical Module	**Score Range for Practical / Project / Field Module**	**Grade**	**Grade Points**	**Definition**
75 – 100	75 – 100	A	5	Excellent
70 - 74	70 - 74	B+	4	Very Good
60 - 69	60 - 69	B	3	Good
50 - 59	50 - 59	C	2	Satisfactory
45 - 49	45 - 49	D	1	Poor
0 – 44	0 – 44	E	0	Fail
-	-	I	0	Incomplete
-	-	Q	0	Disqualified

CA – Continuous Assessment Marks, SE – Semester Examination Marks, NE – Not Eligible, NL – Nil Total, AA – Absent, GPA – Grade Point Average (Given for the candidates who have passed in all the Modules in the current semester). P – Pass, F – Fail, F* – Failed to score the minimum pass marks in the End Theory / End Practical Examination / Viva Voce.

20. REGULATIONS GOVERNING TRANSFER OF STUDENTS AND CREDIT TRANSFER

20.1 Transfer from One Programme to Another

Students who are recommended to repeat the first year of study may, subject to the approval of the Senate, be allowed to transfer to a programme of their choice provided they meet the entry requirements of the programme.

20.2 Transfer of Students

(i) A student may transfer from any University to SJUIT and vice versa to study in one of the programmes of study provided that:

(ii) The applicant's academic entry qualifications in the previous University shall be similar to that required by SJUIT including the respective programme's cut-off point in the relevant year.

(iii) The programme's content of study between the two Universities (institutions) are similar and compatible;

(iv) Grading and assessment criteria of the programmes are compatible and accepted by the Senate;

(v) Expenses paid to SJUIT by the student or requesting University have been accepted by SJUIT.

(vi) The Senate shall regulate on the transfer of grades.

(vii) Student credit transfer is allowed between Universities only

(viii) Credit transfer applies to both undergraduate and postgraduate degree programmes

(ix) Credit transfer can only be allowed if such credits have been obtained within a period of not less than one year and not more than two years

(x) Students discontinued from other universities are not allowed to transfer credits to St. Joseph University In Tanzania

(xi) Students will be required to undertake at least 2/3 of degree programme credits at SJUIT. Maximum credit allowable for transfer, therefore, is 1/3 of the required credits of a SJUIT degree programme.

(xii) SJUIT students on study-abroad programmes shall be allowed to transfer credits obtained from the other university to SJUIT.

20.3 Conditions Governing Credit Transfer from SJUIT to other Universities.

Transfer of credits from SJUIT to other universities will be governed by the regulations of the receiving University.

20.4 Procedures and Administration of Student Credit Transfer

(i) Applications for credit transfer should be submitted to the Deputy Vice Chancellor (Academic), in writing, and attaching copies of all required supporting documents

(ii) All applications shall be scrutinized by relevant committees responsible for admission at the Department, School/ College levels before reaching Senate for approval

(iii) Students transferring from other universities to SJUIT shall apply for credit transfer at least three months before the beginning of the semester they want to join. Cases of SJUIT's study-abroad students shall be dealt with on case by case basis.

(iv) Supporting documents for credit transfer application shall include the following:

a) Official transcript (to be sent by the other university)
b) Letter of introduction/recommendation from the previous university
c) Course description, catalogue or syllabus (to include number of hours of teaching, method of assessment and grading system)
d) An official translation of the original documents (in case of non-English documents)
e) Photo-attached personal identification documents e.g. Birth certificate, passport or ID
f) Certified copies of the original certificates used to gain admission into the previous university.

The following are reasons that shall be acceptable for credit transfer, in addition to meeting credit transfer criteria:

(i) Courses not offered at the University of Registration (applies only for short-term transfers)

(ii) Illness (to be certified by SJUIT medical officer in-charge)

(iii) Exchange programmes

(iv) Refugee situation

(v) Returning resident

Credit transfer applicants must pay a non-refundable fee to be determined from time to time; However, SJUIT students on study-abroad programmes need not pay such fees as they had already paid the fee when applying for admission into the University.

COLLEGES AND PROGRAMMES

21. St. Joseph College Of Engineering and Technology, Mbezi, Dar es Salaam

21.1 Introduction

St. Joseph College of Engineering & Technology (SJCET), Dar- es- Salaam is a Campus College of St. Joseph University In Tanzania (SJUIT) is situated along the Morogoro road at Mbezi-Luguruni, Dar es Salaam. It is built on sprawling 30-acres of hilly land. The College provides a conducive atmosphere for the pursuit of education with aims to establish and maintain global standards in the field of education. The students are provided with good conditions to pursue their academic career goals.

21.2 Departments and programmes offered

The College offers Degree and Diploma programmes in engineering discipline for the following departments as below

(i) Department of Civil Engineering and the Built Environment

(ii) Department of Mechanical Engineering

(iii) Department of Electrical Electronic and Commun77

(iv) ication Engineering

(v) Department of Computer Science and Information System Engineering

21.2.1 Department of Civil Engineering and the Built Environment

The Department offers Ordinary Diploma at NTA level 6 and Bachelor of Engineering Degree at NTA Level 8. The department has sufficient physical and human resources this include lecturers, classrooms, laboratories and workshops.

Programmes offered by Civil Engineering and the Built Environment Department

The following programmes are offered by the department of Civil Engineering and the Built Environment

(i) Ordinary Diploma in Civil Engineering
(ii) Bachelor of Engineering in Civil Engineering

COMMON TO ALL DIPLOMA PROGRAMMES		
Semester I		
Module Code	**Module Name**	**Credits**
00 LA 101	Communication Skills I	12
00 MA 102	Basic Engineering Mathematics I	15
00 PH 103	Physics	15
00 CS 104	Basics of Computer Science	12
00 ME 107	Workshop Practice	9
00 CS 108	Office Laboratory	9
Semester II		
Module Code	**Module Name**	**Credits**
00 LA 201	Communication Skills II	12
00 MA 202	Basic Engineering Mathematics II	15
00 PH 203	Chemistry	12
00 CS 204	Computer Programming Language	12
00ME 207	Technical Drawing	15
00 CS 208	Computer Programming Laboratory	9

Ordinary Diploma in Civil Engineering

Semester III		
Module Code	**Module Name**	**Credits**
01 CE 301	Engineering Mechanics	12
01 CE 302	Construction Materials and Practice	12
01 CE 303	Surveying	12
01 CE 307	Civil Engineering Drawing I	9
01 CE 308	Material Testing Laboratory and Practice I	9
01 CE 309	Surveying Laboratory Practice I	9
01 IP 001	Industrial Practical Training	16

Semester IV		
Module Code	**Module Name**	**Credits**
01 CE 401	Theory of Structures	12
01 CE 402	Environmental Engineering	12
01 CE 403	Transportation Engineering	12
01 CE 407	Material Testing Laboratory and Practice II	9
01 CE 408	CAD in Civil Engineering Drawing Laboratory I	9
01 CE 409	Surveying Laboratory II	9

Semester V		
Module Code	**Module Name**	**Credits**
01 CE 501	Structural Engineering	12
01 CE 502	Quantity Surveying	12
01 CE 503	Hydraulics	12
01 CE 507	CAD in Civil Engineering Drawing Laboratory II	9
01 CE 508	Construction Laboratory	9
01 CE 509	Hydraulics and Plumbing Laboratory	9
01 PJ 609	Project	9
01 IP 002	Industrial Practical Training	16

Semester VI		
Module Code	**Module Name**	**Credits**
01 CE 601	Construction Management with MIS	12
01 CE 602	Concrete Technology and Advanced Construction	12
	Elective I	12
	Elective II	12
01 CE 608	Computer Application in Civil Engineering Lab	9
01 PJ 609	Project	15

List of Elective Papers		
Module Code	**Module Name**	**Credits**
01 CE 611	Elements of Interior Design	12
01 CE 612	Water Resource Management	12
01 CE 613	Town Planning	12

COMMON TO ALL ENGINEERING PROGRAMMES		
Semester I		
Module Code	**Module Name**	**Credits**
099 LA 11	Communication Skills	12
099 MA 12	Engineering Mathematics I	15
099 PH 13	Engineering Physics	15
099 CE 14	Basic Civil Engineering	12
099 ME 15	Basic Mechanical Engineering	12
099 CS 17	Modern Information System Laboratory (Basic Computer Applications)	9
099 ME 18	Engineering Drawing	12
	Introduction to C Programming	
Semester II		
Module Code	**Module Name**	**Credits**
099 ME 21	Engineering Mechanics	12
099 MA 22	Engineering Mathematics II	15
099 CS 23	Computer Programming ?????	12
099 EE 24	Basic Electrical Engineering	12
099 EC 25	Basic Electronics Engineering	12
099 GE 26	Environmental Science and Engineering	12
099 CS 27	Computer Programming Laboratory	9
099 ME 28	Workshop Practice	9
	Engineering Software & Applications	

Bachelor of Engineering in Civil Engineering		
Semester III		
Module Code	**Module Name**	**Credits**
051 MA31	Engineering Mathematics III	9
051 CE 32	Building Science	9
051 CE 33	Surveying I	9
051 CE 34	Architecture	9
051 CE 35	Mechanics of Solids	9
051 CE 36	Fluid Mechanics	9
051 CE 37	Hydraulics Engineering Laboratory	9
051 CE 38	Survey Practical I	9
051 IP 01	Industrial Practical Training I	20

Semester IV		
Module Code	**Module Name**	**Credits**
051 CE 41	Applied Hydraulic Engineering	9
051 CE 42	Concrete And Construction Technology	9
051 MA 43	Numerical Methods	9
051 CE 44	Soil Mechanics	9
051 CE 45	Strength Of Materials	9
051 CE 46	Remote Sensing And GIS	9
051 CE 47	Strength Of Materials Laboratory	9
051 CE 48	Soil Engineering Laboratory	9
051 IP 02	Industrial Practical Training	20

Semester V		
Module Code	**Module Name**	**Credits**
051 CE 51	Structural Analysis I	9
051 CE 52	Structural Design I	9
051 CE 53	Surveying II	9
051 CE 54	Environmental Engineering I	9
051 CE 55	Transportation Engineering I	9
051 MA 56	Operational Research	9
051 CE 57	Computer Aided Building Drawing	9
051 CE 58	Survey Practical II	9

Semester VI		
Module Code	**Module Name**	**Credits**

051 CE 61	Structural Analysis II	9
051 CE 62	Structural Design II	9
051 CE 63	Foundation Engineering	9
051 CE 64	Environmental Engineering II	9
051 CE 65	Transportation Engineering II	9
051 CE 66	Irrigation Engineering	9
051 CE 67	Concrete And Highway Laboratory	9
051 CE 69	Mini Project	9
051 IP 02	Industrial Practical Training	20

Semester VII		
Module Code	**Module Name**	**Credits**
051 CE 71	Estimation And Value Engineering	9
051 CE 72	Economics And Business Finance For Civil Engineers	9
051 CE 73	Construction Management	9
051 MG 74	Professional Ethics	6
	Elective Paper-I	9
	Elective Paper- II	9
051 CE 77	Computer Aided Design And Drawing	9
051 PJ 89	Project Phase-I	9
Semester VIII		
Module Code	**Module Name**	**Credits**
051 MG 81	Total Quality Management	6
	Elective Paper-I	9
	Elective Paper- II	9
051 PJ 89	Project Phase- II	36

List of Elective Papers		
Module Code	**Module Name**	**Credits**
051 CE 01	Bridge Structures	9
051 CE 02	Storage Structures	9
051 CE 03	Design Of Plate And Shell Structure	9
051 CE 04	Tall Building	9
051 CE 05	Structural Dynamics	9
051 CE 06	Prefabricated Structures	9
051 CE 07	Wind Engineering	9
051 CE 08	Computer Aided Design Of Structures	9
051 CE 09	Pre-Stressed Concrete Structures	9
051 CE 10	Industrial Structures	9
051 CE 11	Smart Structures And Smart Materials	9
051 CE 12	Finite Element Techniques	9
051 CE 13	Ground Water Engineering	9

051 CE 14	Water Resources Engineering	9
051 CE 15	Management Of Irrigation Systems	9
051 CE 16	Coastal Zone Management	9
051 CE 17	Transportation Planning And Systems	9
051 CE 18	Traffic Engineering And Management	9
051 CE 19	Housing Planning And Design	9
051 CE 20	Railways And Airport Engineering	9
051 CE 21	Urban And Regional Development	9

21.2.2 Department of Mechanical Engineering

The Department offers Ordinary Diploma at NTA level 6 and Bachelor of Engineering Degree at NTA Level 8. The department has sufficient physical and human resources this include lecturers, classrooms, laboratories and workshops.

Programmes offered by Mechanical Engineering Department

The following programmes are offered by the department of mechanical engineering

- Ordinary Diploma in Mechanical Engineering
- Bachelor of Engineering in Mechanical Engineering

COMMON TO ALL DIPLOMA PROGRAMMES		
Semester I		
Module Code	**Module Name**	**Credits**
00 LA 101	Communication Skills I	12
00 MA 102	Basic Engineering Mathematics I	15
00 PH 103	Physics	15
00 CS 104	Basics of Computer Science	12
00 ME 107	Workshop Practice	9
00 CS 108	Office Laboratory	9
Semester II		
Module Code	**Module Name**	**Credits**
00 LA 201	Communication Skills II	12
00 MA 202	Basic Engineering Mathematics II	15
00 PH 203	Chemistry	12
00 CS 204	Computer Programming Language	12
00ME 207	Technical Drawing	15
00 CS 208	Computer Programming Laboratory	9

Ordinary Diploma in Mechanical Engineering		
Semester III		
Module Code	**Module Name**	**Credits**
02 ME 301	Mechanics of Materials	12
02 ME 302	Manufacturing Process	12
02 ME 303	Fluid Mechanics & Fluid Power	12
02 ME 307	Machine Drawing	9
02 EC 308	Mechanics of Materials & Fluid Mechanics Lab	9
02 ME 309	Workshop I (Smithy, Foundry & Welding)	9
02 IP 001	Industrial Practical Training	16

Semester IV		
Module Code	**Module Name**	**Credits**
02 ME 401	Applied Thermodynamics	12
02 ME 402	Machine Shop Technology	12
02 EE 403	Electrical & Electronics Engineering	12
02 ME 407	Thermodynamics Laboratory	9
02 EE 408	Electrical & Electronics Engineering Laboratory	9
02 ME 409	Workshop II (Lathe & Metrology)	9

Semester V		
Module Code	**Module Name**	**Credits**
02 ME 501	Design of Machine Elements	12
02 ME 502	Thermal Engineering	12
	Elective Theory I	12
02 ME 507	Auto CAD Laboratory	9
02 ME 508	Workshop III (Special Machine)	9
	Elective Laboratory I	9
02 PJ 609	Project Work	9
02 IP 002	Industrial Practical Training	16

Semester VI		
Module Code	**Module Name**	**Credits**
02 ME 601	Industrial Engineering & Management	12
02 ME 602	CAD / CAM	12
	Elective Theory II	12
02 ME 607	CAD / CAM Laboratory	9
	Elective Laboratory II	9
02 PJ 609	Project Work	15

List of Elective Papers		
Module Code	**Module Name**	**Credits**
02 ME 611	Foundry Technology	12
02 ME 612	Refrigeration & Air Conditioning	12
02 ME 613	Welding Technology	12
02 ME 621	Metrology & Machine Tool Testing	12
02 ME 622	Farm Equipment Technology	12
02 ME 617	Foundry Technology Laboratory	9
02 ME 618	Refrigeration & Air Conditioning Laboratory	9
02 ME 619	Welding Technology Laboratory	9
02 ME 627	Metrology & Machine Tool Testing Laboratory	9
02 EE 628	Farm Equipment Technology Laboratory	9

Bachelor of Engineering in Mechanical Engineering		
Semester III		
Module Code	**Module Name**	**Credits**
052 MA 31	Engineering Mathematics III	15
052 ME 32	Engineering Thermodynamics	12
052 ME 33	Theory of Machines	12
052 ME 34	Design and Drawing of Machine Element	12
052 ME 35	Fluid Mechanics and Machinery	12
052 ME 36	Engineering Materials and Metallurgy	12
052 CE 37	Fluid Mechanics and Machinery Laboratory	9
052 CE 38	Computer Aided Machine Drawing	9

Semester IV		
Module Code	**Module Name**	**Credits**
052 ME 41	Dynamics of Machines	12
052 ME 42	Heat And Mass Transfer	12
052 ME 43	Numerical Methods for Engineering Applications	15
052 EE 44	Electrical Machines and Drives	12
052 ME 45	Strength of Materials	12
052 ME 46	Refrigeration and Air Conditioning	12
052 ME 47	Strength of Materials Laboratory	9
052 ME 48	Thermal and Refrigeration Laboratory	9
052 IP 01	Industrial Practical Training I	10

Semester V		
Module Code	**Module Name**	**Credits**
052 ME 51	Production Technology	12
052 ME 52	Machine Tools	12
052 ME 53	Engineering Metrology	12

052 EE 54	Measurements and Controls	12
052 ME 55	Gas Dynamics and Space Propulsion	12
052 MA 56	Operational Research	15
052 ME 57	Manufacturing Technology Laboratory	9
052 ME 58	Kinetics and Dynamics Laboratory	9

Semester VI		
Module Code	**Module Name**	**Credits**
052 IP 02	Industrial Practical Training II	10
052 ME 61	Thermal Engineering	12
052 ME 62	Power Plant Engineering	12
052 ME 63	Design of Jigs, Fixtures and Press Tools	12
052 ME 64	Design of Transmission System	12
052 ME 65	Hydraulics and Pneumatics Controls	12
052 ME 66	Automobile Engineering	12
052 ME 67	Thermal Engineering Laboratory	9
052 ME 68	Design and Fabrication Project	9

Semester VII		
Module Code	**Module Name**	**Credits**
052 ME 71	Mechatronics	12
052 ME 72	Computer Integrated Manufacturing	12
052 ME 73	Process Planning and Cost Estimation	12
052 MG 74	Professional Ethics	6
	Elective I	9
	Elective II	9
052 ME 77	Mechatronics Laboratory	9
052 ME 78	Computer Aided Simulation and Analysis Laboratory	9
052 PJ 89	Project Phase I	9

Semester VIII		
Module Code	**Module Name**	**Credits**
052 MG 81	Total Quality Management	6
	Elective II	9
	Elective III	9
052 PJ 89	Project Phase II	36

List of Elective Papers		
Module Code	**Module Name**	**Credits**
052 ME 01	Energy Conservation and Management	9

052 ME 02	Composite Materials and Mechanics	9
052 ME 03	Turbo Machinery	9
052 ME 04	Computational Fluid Dynamics	9
052 ME 05	Design of Pressure Vessels and Piping	9
052 ME 06	Flexible Manufacturing System	9
052 ME 07	Finite Element Analysis	9
052 ME 08	Fundamentals of Nano Science	9
052 ME 09	Probability and Statistics	9
052 ME 10	Advanced IC Engines	9
052 ME 11	Theory of Metal Forming	9
052 ME 12	Entrepreneurship Development	9
052 ME 13	Marketing Management	9
052 ME 14	Product Design and Development	9
052 ME 15	Principles of Management	9

21.2.3 Department of Electrical Electronic and Communication Engineering

The Department offers Ordinary Diploma at NTA level 6 and Bachelor of Engineering Degree at NTA Level 8. The department has sufficient physical and human resources this include lecturers, classrooms, laboratories and workshops.

Programmes offered by Electrical Electronic and Communication Engineering Department

The following programmes are offered by the department of Electrical Electronic and Communication Engineering

- Ordinary Diploma in Electrical and Electronics Engineering
- Ordinary Diploma in Electronics and Communication Engineering
- Bachelor of Engineering in Electrical and Electronics Engineering
- Bachelor of Engineering in Electronics and Communication Engineering

Diploma in Electrical and Electronics Engineering		
Semester III		
Module Code	**Module Name**	**Credits**
03 EE 301	Electrical Circuit Theory	12
03 EE 302	Electrical Machines I	12
03 EE 303	Electronic Devices & Circuits	12
03 EE 307	Electrical Circuits Laboratory	9
03 EE 308	Electrical Machines Laboratory I	9
03 EE 309	Electronic Device and Circuits Laboratory	9
03 IP 001	Industrial Practical Training	16

Semester IV		
Module Code	**Module Name**	**Credits**
03 EE 401	Electrical Machine II	12
03 EE 402	Measurement and Instrumentation	12
03 EE 403	Analog and Digital Electronics	12
03 EE 407	Electrical Machine Laboratory II	9
03 EE 408	Measurement and Instrumentation Laboratory	9
03 EE 409	Analog and Digital Electronics Laboratory	9

Semester V		
Module Code	**Module Name**	**Credits**
03 EE 501	Power System I	12
03 EC 502	Microprocessor and Microcontrollers	12
	Elective Theory I	12
03 EE 507	Electrical Wiring, Winding and Estimation Laboratory	9
03 EC 508	Microprocessor and Microcontrollers Laboratory	9
	Elective Laboratory I	9
01 PJ 609	Project	9

Semester VI		
Module Code	**Module Name**	**Credits**
03 IP 002	Industrial Practical Training	16
03 EE 601	Power System II	12
03 EE 602	Generation, Transmission and Switch Gear	12
	Elective Theory II	12
03 EE 607	Computer Aided Electrical Drawing Laboratory	9
	Elective II Laboratory	9
03 PJ 609	Project Work	15

List of Elective Papers		
Module Code	**Module Name**	**Credits**
03 CS 611	Programming in C++	12
03 EE 612	Control of Electrical Machines	12
03 EE 613	Non-Conventional Energy Sources	12
03 EE 621	Electrical Machine Design	12
03 EE 622	Power Electronics	12
03 CS 623	Computer Hardware Servicing	12
03 EE 631	Programmable Logic Controller	12
03 CS 617	Programming in C++ Laboratory	9
03 EE 618	Control of Electrical Machines Laboratory	9
03 EE 619	Non-Conventional Energy Sources Laboratory	9

Bachelor of Engineering in Electrical and Electronics Engineering		
Semester III		
Module Code	**Module Name**	**Credits**
053MA 31	Engineering Mathematics III	9
053 EC 32	Digital Electronics	9
053 EE 33	Electric Circuit Analysis	9
053 ME 34	Thermodynamics	9
053 EE 35	Electrical Machines – I	9
053 EE 36	Electro Magnetic Theory	9
053 EE 37	Electric Circuit Laboratory	9
053 EE 38	Electrical Machines Laboratory-I	9

Semester IV		
Module Code	**Module Name**	**Credits**
053 EE 41	Power Electronics	9
053 EC 42	Communication Engineering	9
053 EE 43	Electrical Machines –II	9
053 EC 44	Network Analysis And Synthesis	9
053 CS 45	Object Oriented Programming	9
053 EC 46	Electronic Devices And Circuits	9
053 EE 47	Power Electronics Laboratory	9
053 EE 48	Electrical Machines Laboratory-II	9
053 IP 01	Industrial Practical Training I	20

Semester V		
Module Code	**Module Name**	**Credits**
053 EE 51	Transmission & Distribution	9
053 EE 52	Measurements &Instrumentation	9

053 EE 53	Solid State Drives	9
053 EC 54	Linear Integrated Circuits	9
053 ME 55	Power Plant Engineering	9
053 EE 56	Design Of Electrical Apparatus	9
053 EC 57	Electronic Circuits And Ic Laboratory	9
053 EE 58	Measurements And Instrumentation Laboratory	9

Semester VI		
Module Code	**Module Name**	**Credits**
053 EE 61	Renewable Energy Source	9
053 EC 62	Digital Signal Processing(Common)	9
053 EE 63	Protection And Switch Gear	9
053 EE 64	Power System Analysis	9
053 EC 65	Microprocessor And Microcontroller Applications	9
53 EE 606	Control Systems	9
053 EC 67	Microprocessor And Micro Controller Laboratory	9
053 PJ 69	Mini Project	9
053 IP 02	Industrial Practical Training	20
Semester VII		
Module Code	**Module Name**	**Credits**
053 EE 71	High Voltage Engineering	9
053 EE 72	Power System Control	9
053 MG 73	PRINCIPLES OF MANAGEMENT (Common)	6
053MG 74	PROFESSIONAL ETHICS(Common)	6
053 EE 01	Elective Theory –I- Special Electrical Machines	9
053EE05	Elective Theory –II- EHVACAnd DC	9
053 EE 77	Control Systems And Simulation Laboratory	9
053 EE 78	Power System Simulation Laboratory	9

Semester VIII		
Module Code	**Module Name**	**Credits**
053MG 81	Total Quality Management(Common)	6
	Elective III	9
	Elective IV	9
053PJ 89	Project Phase –II	36

List of Elective Papers		
Module Code	**Module Name**	**Credits**
053 EE 01	Special Electrical Machines	9
053 EE 02	Computer Aided Design Of Electrical Apparatus	9

053 EE 03	Power Electronic Instrument	9
053 EE 04	Advanced Power Electronic Systems	9
053 EE 05	EHV Ac & Dc Transmission	9
053 EE 06	Power System Operations	9
053 EE 07	Power System Transients	9
053 EE 08	Neural Networks And Applications To Power Systems	9
053 EE 09	Fuzzy Set Theory And Application To Power Systems	9
053 EE 10	Knowledge Based Systems	9
053 EE 11	Electric Energy Utilization And Conservation	9
053 EE 12	Advanced Control Systems	9
053 EE 13	Intelligent Controllers	9
053 EE 14	Bio-Medical Instrumentation	9
053EC 15	Micro Controller Based System Design	9
053 CS 16	Database Management System	9
053 CS 17	Visual Language And Its Application To Electrical Engineering	9
053 CS 18	Computer Networks	9
053 EE 19	Creativity, Innovation And New Product Development	9
053 EE 20	Solid State Relays	9
053 EE 21	Soft Computing	9
053 EE 22	Power Plant Instrumentation	9
053 EE 23	Robotics And Automation	9
053 EE 24	Medical Instrumentation	9
053 EE 25	HVDC Transmission	9
053EC 26	VLSI Design	9
053 EE 27	Embedded Control Of Electrical Drives	9
053 CS 28	Computer Architecture	9
053 LA 29	Communication Skills For Engineers	9

Ordinary Diploma in Electronics and Communication Engineering		
Semester III		
Module Code	**Module Name**	**Credits**
04 EC 301	Electronics Device and Circuits	12
04 EC 302	Electric Circuits and Instrumentation	12
04 CS 303	C++ Programming	12
04 EC 307	Electronics Device and Circuits Laboratory	9
04 EC 308	Electric Circuits and Instrumentation Laboratory	9
04 CS 309	C++ Programming Laboratory	9
04 IP 001	Industrial Practical Training	16

Semester IV		
Module Code	**Module Name**	**Credits**
04 EC 401	Analog and Digital Electronics	12
04 EC 402	Industrial Electronics	12
04 EC 403	Communication Engineering	12
04 EC 407	Analog and Digital Electronics Laboratory	9
04 EC 408	Industrial Electronics Laboratory	9
04 EC 409	Communication Engineering Laboratory	9

Semester V		
Module Code	**Module Name**	**Credits**
04 EC 501	Microprocessor and Microcontroller	12
04 EC 502	Advanced Communication System	12
04 CS 503	Computer Hardware and Networking	12
04 EC 507	Microprocessor and Microcontroller Laboratory	9
04 EC 508	Advanced Communication System Laboratory	9
04 CS 509	Computer Hardware and Networking Laboratory	9
04 PJ 609	Project Work	9
04 IP 002	Industrial Practical Training	16

Semester VI		
Module Code	**Module Name**	**Credits**
04 CS 601	Embedded System	12
	Elective I	12
	Elective II	12
04 EC 607	Embedded System Laboratory	9
	Elective II Laboratory	9
04 PJ 609	Project Work	15

List of Elective Papers		
Module Code	**Module Name**	**Credits**
04 EC 611	Digital Signal Processing	12
04 EC 612	VLSI	12
04 EC 621	Robotics and Auto Electronics	12
04 CS 622	Digital Image Processing	12
04 EC 631	Television Engineering	12
04 EC 632	Bio-Medical Instrumentation	12
04 EC 617	Digital Signal Processing Laboratory	9
04 EC 618	VLSI Laboratory	9
04 EC 627	Robotics and Auto Electronics Laboratory	9

Bachelor of Engineering in Electronics and Communication Engineering		
Semester III		
Module Code	**Module Name**	**Credits**
054 MA 31	Engineering Mathematics III	9
054 EC 32	Digital Electronics	9
054 EC 33	Electronic Circuits- I	9
054 EE 34	Circuit Theory	9
054 EC 35	Electro Magnetic Field	9
054 EC 36	Signals And Systems	9
054 EE 37	Electric Circuits And Machines Lab	9
054 EC 38	Electronic Devices And Circuits Laboratory	9

Semester IV		
Module Code	**Module Name**	**Credits**
054 MA 41	Random Process	9
054 EC 42	Electronic Circuits- II	9
054 EC 43	Communication Theory And Systems	9
054 CS 44	Programming Data Structure	9
054 EC 45	Linear Integrated Circuits	9
054 EE 46	Measurements And Instrumentation	9
054 EC 47	Linear Integrated Circuits Lab	9
054 EC 48	Electronic Circuits Design Lab	9
054 IP 01	Industrial Practical Training	20

Semester V		
Module Code	**Module Name**	**Credits**
054 EC 51	Microprocessor And Microcontroller Applications	9
054 EC 52	Digital Communication	9
054 EC 53	Digital Signal Processing	9
054 EE 54	Control System	9
054 EC 55	Transmission Lines And Waveguides	9
054 CS 56	Computer Architecture	9
054 EC 57	Digital Signal Processing Lab	9
054 EC 58	Microprocessor And Microcontroller Lab	9

Semester VI		
Module Code	**Module Name**	**Credits**
054 EC 61	Microwave Engineering	9
054 EC 62	VLSI Design	9
054 EC 63	Telecommunication Switching Systems And Networks	9
054 CS 64	Computer Communication And Networks	9
054 EC 65	Antennas And Propagation	9
054 EC 66	Optical Communication	9
054 EC 67	Microwave And Optical Communication	9

	Laboratory	
054 EC 69	Mini Project	9
054 IP 02	Industrial Practical Training	20

Semester VII		
Module Code	**Module Name**	**Credits**
054 EC 71	Satellite Communication	9
054 EC 72	Television Engineering	9
054 MG 73	Principles Of Management	6
054 MG 74	Professional Ethics	6
	Elective I	9
	Elective II	9
054 EC 77	Electronic System Design Lab	9
054 EC 78	Communication System Lab	9

Semester VIII		
Module Code	**Module Name**	**Credits**
054 MG 81	Total Quality Management	6
	Elective II	9
	Elective III	9
054 PJ 89	Project Phase II	36

List of Elective Papers		
Module Code	**Module Name**	**Credits**
054 CS 01	Operating Systems	9
054EC 02	Computer Hardware And Interfacing	9
054EC 03	Advanced Microprocessor	9
054 CS 04	Object Oriented Programming	9
054 EE 05	Power Electronics	9
054EC 06	Industrial Electronics	9
054 EC 07	Medical Electronics	9
054 EC 08	Opto Electronics Device	9
054 EC 09	Advanced Electronics System Design	9
054 EC 10	Computer Aided Analysis And Design	9
054 EC 11	Nano Electronics	9
054 EC 12	Mobile Communication	9
054 EC 13	Mobile Adhoc Networks	9
054 EC 14	Radar & Navigation Aids	9
054 EC 15	Electromagnetic Interface & Compatibility	9
054 EC 16	Engineering Acoustics	9
054 EC 17	Integrated Service Digital Network	9
054 CS 18	Internet And Java (Java programming and Internet technologies)	9

054 EC 19	Telecommunication .System Modeling & Simulation	9
054 CS 20	Digital Image Processing	9
054 EC 21	Advanced Digital Signal Processing	9

21.2.4 Department of Computer Science and Information System Engineering

The Department offers Ordinary Diploma at NTA level 6 and Bachelor of Engineering Degree at NTA Level 8. The department has sufficient physical and human resources this include lecturers, classrooms, laboratories and workshops.

Programmes offered by Computer Science and Information System Engineering Department

The following programmes are offered by the department of Computer Science and Information System Engineering

- Ordinary Diploma in Computer Science Engineering
- Ordinary Diploma in Information Systems and Network Engineering
- Bachelor of Engineering in Information Systems and Network Engineering
- Bachelor of Engineering in Information Systems and Network Engineering

Ordinary Diploma in Computer Science Engineering		
Semester III		
Module Code	**Module Name**	**Credits**
05 EC 301	Basics of Electrical and Electronics Engineering	12
05 CS 302	Data Structures and Algorithm	12
05 CS 303	PC Hardware and Servicing (Software and Hardware Trouble-shooting)	12
05 EC 307	Electrical and Electronics Laboratory	9
05 CS 308	Advanced C Programming Laboratory	9
05 CS 309	PC Hardware and Servicing Laboratory	9
05 IP 001	Industrial Practical Training (10 weeks)	16

Semester IV

Module Code	Module Name	Credits
05 CS 401	Object Oriented Programming with Java	12
05 CS 402	Internet Concepts and Web Designing	12
05 CS 403	Computer Architecture & Assembly Language Programming	12
05 CS 407	Java Programming Laboratory	9
05 CS 408	Web Designing Laboratory	9
05 CS 409	Visual Basic Programming Laboratory	9

Semester V		
Module Code	**Module Name**	**Credits**
05 CS 501	Relational Database Management System	12
05 CS 502	Computer Networks and Security	12
05 CS 503	Operating Systems	12
05 CS 507	Relational Database Management System Laboratory	9
05 CS 508	Computer Networks and Security Laboratory	9
05 CS 509	Operating System Laboratory	9
05 PJ 609	Project Work	9
05 IP 002	Industrial Practical Training	16

Semester VI		
Module Code	**Module Name**	**Credits**
05 CS 601	Mobile Computing	12
05 CS 602	TCP/IP Networking	12
	Elective	12
05 CS 607	TCP/IP Networking Laboratory	9
	Elective Laboratory	9
05 PJ 609	Project Work	15

List of Elective Papers		
Module Code	**Module Name**	**Credits**
05 CS 611	Advanced Java Programming	12
05 CS 612	Visual C++ Programming	12
05 CS 632	Financial Accounting and Management	12
05 CS 633	Multimedia Systems (Interactive Multimedia)	12
05 CS 617	Advanced Java Programming Laboratory	9
05 CS 618	Visual C++ Programming Laboratory	9
05 CS 638	Accounting Laboratory	9
05 CS 639	Multimedia Laboratory	9
05 CS 611	Advanced Java Programming	12

Bachelor of Engineering in Computer Science Engineering		
Semester III		
Module Code	**Module Name**	**Credits**
055 MA 31	Engineering Mathematics-III	9
055 EC 32	Digital Electronics	9
055 EE 33	Electrical Engineering And Control Systems	9
055 CS 34	Data Structures And Algorithms	9
055 CS 35	Database Management Systems	9
055 CS 36	System Software	9
055 EC 37	Digital Electronics Laboratory	9
055 CS 38	System Software And DBMS Laboratory	9
Semester IV		
Module Code	**Module Name**	**Credits**
055 CS 41	Artificial Intelligence and Robotics	9
055 CS 42	Computer Architecture-I	9
055 EC 43	Electronic Circuits	9
055 CS 44	Interactive Computer Graphics	9
055 CS 45	Object-Oriented Programming	9
055 MA 46	Probability And Queuing Theory	9
055 EC 47	Electronic Circuits Laboratory	9
055 CS 48	Object Oriented Programming Laboratory	9
055 IP 01	Industrial Practical Training	20

Semester V		
Module Code	**Module Name**	**Credits**
055 EC 51	Analog, Digital And Data Communications	9
055 CS 52	Computer Architecture-II	9
055 CS 53	Theory Of Computation	9
055 EC 54	Microprocessor	9
055 CS 55	Operating System	9
055 CS 56	Object Oriented System Analysis And Design	9
055 EC 57	Microprocessor Laboratory	9
055 CS 58	Operating System Laboratory	9

Semester VI		
Module Code	**Module Name**	**Credits**
055 CS 61	Computer Networks	9
055 EC 62	Digital Signal Processing	9
055 CS 63	Software Engineering	9
055 CS 64	Network Protocols, Management & Security	9
055 CS 65	Web Technology	9
055 CS 66	Principles Of Compiler Design	9
055 CS 67	Network Programming Laboratory	9
055 CS 68	Internet Programming Laboratory	9
055 PJ 69	Mini Project	9
055 IP 02	Industrial Practical Training	20

Semester VII		
Module Code	**Module Name**	**Credits**
055 MG 71	Engineering Economics And Financial Accounting	9
055 CS 72	Visual Programming	9
055 MG 73	Principles Of Management	6
055 MG 74	Professional Ethics	6
	Elective Theory-I	9
	Elective Theory-II	9
055 CS 77	Visual Programming Laboratory	9
055 PJ 89	Project Phase – I	9

Semester VIII		
Module Code	**Module Name**	**Credits**
055 MG 81	Total Quality Management	6
	Elective Theory-II	9
	Elective Theory-III	9
55 PJ 89	Project Phase – II	36

List of Elective Papers

Module Code	Module Name	Credits
055 CS 01	Advanced Operating Systems	9
055 CS 02	Design Of Algorithms	9
055 CS 03	Parallel Computing	9
055 CS 04	Algorithms For VLSI Design Automation	9
055 CS 05	Neural Computing	9
055 CS 06	Real Time Systems	9
055 CS 07	Digital Speech And Image Processing	9
055 CS 08	Pattern Recognition	9
055 CS 09	Parallel Algorithms	9
055 CS 10	ATM Networking	9
055 CS 11	Multimedia	9
055 CS 12	Software Testing	9
055 CS 13	Advanced Databases	9
055 CS 14	High Performance Microprocessors	9
055 CS 15	Robotics	9
055 CS 16	Advanced Software Engineering	9
055 MA 17	Graph Theory	9
055 CS 18	Custom Computing	9
055 CS 19	Unix Internals	9
055 CS 20	Resource Management Techniques	9
055 CS 21	Distributed Objects	9
055 CS 22	Advanced Java Programming	9
055 CS 23	Java Virtual Machine	9
055 CS 24	Distributed Computing	9
055 CS 25	Bio-Informatics	9
055 CS 26	C # And .Net Framework	9
055 CS 27	Mobile Computing	9
055 CS 28	Grid Computing	9
055 CS 29	Ad-Hoc Networks	9
055 EC30	Embedded Systems	9

Ordinary Diploma in Information Systems and Network Engineering		
Semester III		
Module Code	**Module Name**	**Credits**
06 EC 301	Basics of Electrical and Electronics Engineering	12
06 CS 302	Data Structures and Algorithm	12
06 CS 303	Operating System	12
06 EC 307	Electrical and Electronics Laboratory	9
06 CS 308	Advanced C Programming Laboratory	9
06 CS 309	Operating System Laboratory	9
06 IP 001	Industrial Practical Training	16

Semester IV		
Module Code	**Module Name**	**Credits**
06 CS 401	Object Oriented Programming with Java	12
06 CS 402	Internet Concepts and Web Designing	12
06 CS 403	Computer Architecture & Assembly Language Programming	12
06 CS 407	Java Programming Laboratory	9
06 CS 408	Web Designing Laboratory	9
06 CS 409	Visual Basic Programming Laboratory	9

Semester V		
Module Code	**Module Name**	**Credits**
06 CS 501	Relational Database Management System	12
06 CS 502	Open Source Software's	12
06 CS 503	Multimedia Systems	12
06 CS 507	Relational Database Management System Laboratory	9
06 CS 508	Open Source Software Laboratory	9
06 CS 509	Multimedia Systems Laboratory	9
06 PJ 609	Project Work	9
06 IP 002	Industrial Practical Training	16

Semester VI		
Module Code	**Module Name**	**Credits**
06 CS 601	Management Information System	12
06 CS 602	.Net Programming	12
	Elective	12
06 CS 607	.Net Programming Laboratory	9
	Elective Laboratory	9
06 PJ 609	Project Work	15

List of Elective Papers		
Module Code	**Module Name**	**Credits**
06 CS 611	Advanced Java Programming	12
06 CS 612	Visual C++ Programming	12
06 CS 631	Computer Networks and Security	12
06 CS 632	Financial Accounting and Management	12
06 CS 617	Advanced Java Programming Laboratory	9
06 CS 618	Visual C++ Programming Laboratory	9
06 CS 637	Computer Networks and Security Laboratory	9
06 CS 638	Accounting Laboratory	9

Bachelor of Engineering in Information Systems and Network Engineering		
Semester III		
Module Code	**Module Name**	**Credits**
056 MA 31	Engineering Mathematics-III	9
056 EC 32	Digital Electronics	9
056 CS 33	Object Oriented Programming In C++	9
056 EC 34	Principles Of Communications	9
056 CS 35	Computer Architecture	9
056 CS 36	Data Structures And Algorithms	9
056 CS 37	C++ Programming Laboratory	9
056 EC 38	Digital Electronics Laboratory	9
	System Development Methods	

Semester IV		
Module Code	**Module Name**	**Credits**
056 EC 41	Microprocessor And Microcontroller Applications	9
056 EC 42	Telecommunication Switching Systems And Networks	9
056 CS 43	Java Programming	9
056 CS 44	Operating Systems	9
056 CS 45	Database Management Systems	9
056 CS 46	Software Engineering	9
056 CS 47	RDBMS Laboratory	9
056 EC 48	Communication System Laboratory	9
056 IP 01	Industrial Practical Training	20
	Information Systems Analysis and Design	

Semester V		
Module Code	**Module Name**	**Credits**
056 EC 51	Embedded Architecture	9
056 CS 52	Computer Networks	9
056 CS 53	Visual Programming	9
056 EC 54	Information Theory and Coding Techniques	9
056 CS 55	Software Quality Management	9
056 CS 56	Object Oriented Analysis And Design	9
056 CS 57	Case Tools Laboratory	9
056 CS 58	Visual Programming Laboratory	9

Semester VI		
Module Code	**Module Name**	**Credits**
056 CS 61	TCP/IP and Socket Programming	9
056 EC 62	Digital Signal Processing	9
056 CS 63	Component Based Technology	9
056 CS 64	Web Technology	9
056 EC 65	Mobile Communications Engineering	9
056 CS 66	High Performance Networks	9
056 CS 67	Software Component Laboratory	9
056 CS 69	Mini Project	9
056 IP 02	Industrial Practical Training	20

Semester VII		
Module Code	**Module Name**	**Credits**
056 CS 71	Cryptography, Network Management And Security	9
056 CS 72	Multimedia Systems	9
056 MG 73	Principles Of Management	6
056 MG 74	Professional Ethics	6
	Elective Theory-I	9
	Elective Theory-II	9
056 CS 77	Networking Laboratory	9
056 CS 78	Multimedia Laboratory	9
056 PJ 89	Project Phase –I	9

Semester VIII		
Module Code	**Module Name**	**Credits**
056 MG 81	Total Quality Management	6
	Elective Theory-III	9
	Elective Theory-IV	9
056 PJ 89	Project Phase – II	36

List of Elective Papers		
Module Code	**Module Name**	**Credits**
056 CS 01	Advanced Operating Systems	9
056 CS 02	Design Of Algorithms	9
056 CS 03	Parallel Computing	9

056 CS 04	Algorithms For VLSI Design Automation	9
056 CS 05	Neural Computing	9
056 CS 06	Real Time Systems	9
056 CS 07	Digital Speech And Image Processing	9
056 CS 08	Pattern Recognition	9
056 CS 09	Parallel Algorithms	9
056 CS 10	ATM Networking	9
056 CS 11	Multimedia	9
056 CS 12	Software Testing	9
056 CS 13	Advanced Databases	9
056 EC14	High Performance Microprocessors	9
056 CS 15	Robotics	9
056 CS 16	Advanced Software Engineering	9
056 MA 17	Graph Theory	9
056 CS 18	Custom Computing	9
056 CS 19	Unix Internals	9
056 MG 20	Resource Management Techniques	9
056 CS 21	Distributed Objects	9
056 CS 22	Advanced Java Programming	9
056 CS 23	Java Virtual Machine	9
056 CS 24	Distributed Computing	9
056 CS 25	Bio Informatics	9
056 CS 01	Advanced Operating System	9
056 CS 02	Design Of Algorithms	9
056 CS 03	Parallel Computing	9
056 CS 04	Algorithms For VLSI Design Automation	9
056 CS 05	Neural Computing	9

FACILITIES

The college offers several facilities to all the engineering departments to enrich the students to achieve their goal. The department of Electrical Electronic and Communication Engineering has various laboratories such as power electronics lab, AC and DC machines lab, control system lab, electrical circuit lab, measurements and instrumentation lab, electrical engineering workshop to provide adequate practical knowledge to the students. The department of Computer Science and Information System Engineering has 200 computers to understand the practical concept of networking lab, internet programming lab, multi media lab, components based technology lab, object oriented programming lab, data base management lab, computer installation and servicing lab, operating system lab, web technology lab, open source operating

system lab and basic computer programming lab.

22. St. Joseph College Of Sciences and Mathematics Education, Mbezi, Dar es Salaam

22.1 Introduction

St. Joseph College of Sciences and Mathematics Education (SJCSME), Dar-es- Salaam is a Campus College of St. Joseph University In Tanzania (SJUIT) situated along the Morogoro road at Mbezi-Luguruni, Dar es Salaam. It is built on a sprawling 30-acres of hilly land. The College provides a conducive atmosphere for the pursuit of education with aims to establish and maintain global standards in the field of education. The students are provided with good conditions to pursue their academic career goals.

22.2Departments and programmes offered

The College offers Degree programmes in Education through the following departments:

- Department of Basic Sciences
- Department of Mathematics and Computational Sciences
- Department of Education

22.2.1 Department of Basic Sciences

The Department teaches the following subjects for Bachelor of Education Degree at NTA Level 8: Mathematics, Physics, Biology, Chemistry and Computer Science. The department has sufficient physical and human resources, which include lecturers, lecture rooms, laboratories and workshops.

Programmes offered by Department of Basic Sciences

The following programmes are offered by the department of Basic Sciences

Subject Combinations

Students taking B.Sc. (Ed) programme should take education subject and select two major science subjects when starting first year. The science subjects must form the following combinations:

- Mathematics and Chemistry
- Physics and Chemistry
- Biology and Chemistry
- Mathematics and Physics

Mathematics and Chemistry

COURSE MODULES AND CREDITS

Module Code	Module Name	Credits
Semester I (Year1)		
701CC01	Communication Skills	9
701CC02	Basics of Computers	12
701 ED 51	Educational Philosophy	9
350 MA 51	Introduction to Mathematical Analysis	9
350 MA 52	Introduction to Linear Algebra	9
353 CH 51	Basic Analytical Chemistry	9
353 CH 52	Concepts in Inorganic and General Chemistry	9
Semester II (Year1)		
701 ED 61	Educational Management and School Administration	8
701 ED 62	Educational Psychology	9
701 ED 63	Educational Technology	8
350 MA 61	Calculus for Functions of a Single Variable	9
350 MA 62	Numerical Methods	9

353 CH 61	Volumetric Analysis and Inorganic Preparations	9
353 CH 62	Chemistry of Organic Compounds I	9
Semester III (Year2)		
701 ED 71	Pedagogy of Teaching	12
	common Elective In Education	8
701TP01	Teaching Practice I	9
350 MA 71	Differential Equations and its Applications	9
350 MA 72	Vector Analysis and Fourier Analysis	9
353 CH 71	Chemistry of Organic Compounds II	9
353 CH 72	Inorganic and Organic Qualitative Analysis	9
Semester IV (Year2)		
701 ED 81	Educational Guidance & Counselling	8
701 ED 82	Sociology of Education	8
350 MA 81	Analytical Geometry	9
350 MA 82	Mathematical Statistics	9
	Elective In Mathematics	9
353 CH 81	Inorganic Chemistry	9
353 CH 82	Chemical Thermodynamics	9
Semester V (Year3)		
701 CC 03	Environmental Studies	9
701 ED 91	Curriculum development	8
701TP 02	Teaching Practice II	9
350 MA 91	Complex Analysis	9

350 MA 92	Calculus for Functions of Several Variables	9
353 CH 91	Physical Chemistry Practical	9
353 CH 92	Electrochemistry	9
	Elective In Chemistry	8
Semester VI (Year3)		
701 ED 101	Teaching Professionalism	8
701 ED 102	Educational Measurement, Evaluation and Research	9
701 PJ 100	Project	9
350 MA 101	Linear Programming	9
350 MA 102	Graph Theory	9
353 CH 101	Instrumental Analytical Chemistry	9
353 CH 102	Chemical Kinetics and Nuclear Chemistry	9
Electives in Education and Credits		
701 EE 01	Physical & Health Education	8
701 EE 02	Education for Children with Special Needs	8
701 EE 03	Challenges in Education	8
701 EE 04	Value Education & Education for Human Rights	8
701 EE 05	Peace Education	8
Core-electives and Credits		
Theory Modules		
350 MA 01	Discrete Mathematics	9
350 MA 02	Probability Theory	9
350 MA 03	Modern Algebra	9

353 CH 01	Environmental Chemistry Course	8
353 CH 02	Chemistry of Materials	8
353 CH 03	Food Chemistry and Technology	8
353 CH 04	Industrial Chemistry	8

PHYSICS AND CHEMISTRY

COURSEMODULES AND CREDITS

Module Code	Module Name	Credits
Semester I (Year1)		
701CC01	Communication Skills	9
701CC02	Basics of Computers	12
701 ED 51	Educational Philosophy	9
352 PH 51	Classical Mechanics	9
352 PH 52	Physics Practical I	9
353 CH 51	Basic Analytical Chemistry	9
353 CH 52	Concepts in Inorganic and General Chemistry	9
Semester II (Year1)		
701 ED 61	Educational Management and School Administration	8
701 ED 62	Educational Psychology	9
701 ED 63	Educational Technology	8
352 PH 61	Electricity and Magnetism	9
352 PH 62	Physics Practical II	9
353 CH 61	Volumetric Analysis and Inorganic Preparations	9
353 CH 62	Chemistry of Organic Compounds I	9
Semester III (Year2)		

701 ED 71	Pedagogy of Teaching	12
	Common Elective In Education	8
701TP01	Teaching Practice I	9
352 PH 71	Oscillations and Optics	9
352 PH 72	Physics Practical III	9
353 CH 71	Chemistry of Organic Compounds II	9
353 CH 72	Inorganic and Organic Qualitative Analysis	9
Semester IV (Year 2)		
701 ED 81	Educational Guidance &Counseling	8
701 ED 82	Sociology of Education	8
352 PH 81	Quantum Mechanics and Relativity	9
352 PH 82	Physics Practical IV	9
352PH…..	Elective In Physics	9
353 CH 81	Inorganic Chemistry	9
353 CH 82	Chemical Thermodynamics	9
Semester V (Year3)		
701 CC 03	Environmental Studies	9
701 ED 91	Curriculum development	8
701TP 02	Teaching Practice II	9
352 PH 91	Classical and Statistical Thermodynamics	9
352 PH 92	Electronics	9
353 CH 91	Physical Chemistry practical	9
353 CH 92	Electrochemistry	9

353CH….	Elective In Chemistry	8
Semester VI (Year3)		
701 ED 101	Teaching Professionalism	8
701 ED 102	Educational Measurement, Evaluation and Research	9
701 PJ 100	Project	9
352 PH 101	Atomic Physics	9
352 PH 102	Solid State Physics	9
353 CH 101	Instrumental Analytical Chemistry	9
353 CH 102	Chemical Kinetics and Nuclear Chemistry	9
Electives in Education		
701 EE 01	Physical & Health Education	8
701 EE 02	Education for Children with Special Needs	8
701 EE 03	Challenges in Education	8
701 EE 04	Value Education & Education for Human Rights	8
701 EE 05	Peace Education	8
Theory Modules		
352 PH 01	Energy Physics	9
352 PH 02	Fundamentals of Materials Science	9
352 PH 03	Nuclear Physics and Elementary Particles	9
353 CH 01	Environmental Chemistry Course	8
353 CH 02	Chemistry of Materials	8
353 CH 03	Food Chemistry and Technology	8
353 CH 04	Industrial Chemistry	8

BIOLOGY AND CHEMISTRY
COURSE MODULES AND CREDITS: YEAR 1

Module Code	Module Name	Credits
Semester I (Year 1)		
701CC01	Communication Skills	9
701CC02	Basics of Computers	12
701 ED 51	Educational Philosophy	9
354 BI 51	Introductory Cell Biology and Genetics	9
354 BI 52	Invertebrate Zoology	9
353 CH 51	Basic Analytical Chemistry	9
353 CH 52	Concepts in In organic and General Chemistry	9
Semester II (Year 1)		
701 ED 61	Educational Management and School Administration	8
701 ED 62	Educational Psychology	9
701 ED 63	Educational Technology	8
354 BI 61	Biochemistry	9
354 BI 62	Chordate Zoology	9
353 CH 61	Volumetric Analysis and Inorganic Preparations	9
353 CH 62	Chemistry of Organic Compounds I	9
Semester III (Year 2)		
701 ED 71	Pedagogy of Teaching	12
	Common Elective In Education	8

701TP01	Teaching Practice I	9
354 BI 71	Evolutionary Botany	12
354 BI 72	Developmental Biology and Immunology	9
353 CH 71	Chemistry of Organic Compounds II	9
353 CH 72	Inorganic and Organic Qualitative Analysis	9
Semester IV (Year 2)		
701 ED 81	Educational Guidance &Counseling	8
701 ED 82	Sociology of Education	8
354 BI 81	Cell and Molecular Biology	12
354 BI 82	Ecology I	9
	Elective In Biology	9
353 CH 81	Inorganic Chemistry	9
353 CH 82	Chemical Thermodynamics	9
Semester V (Year 3)		
701 CC 03	Environmental Studies	9
701 ED 91	Curriculum development	8
701TP 02	Teaching Practice II	9
354 BI 91	Plant Physiology	9
354 BI 92	Animal Physiology	9
353 CH 91	Physical Chemistry Practicals	9
353 CH 92	Electrochemistry	9
	Elective In Chemistry	8
Semester VI (Year 3)		

701 ED 101	Teaching Professionalism	8
701 ED 102	Educational Measurement, Evaluation and Research	9
701 PJ 100	Project	9
354 BI 101	Vertebrate Anatomy and Physiology II	9
354 BI 102	Anatomy of Angiosperms	9
353 CH 101	Instrumental Analytical Chemistry	9
353 CH 102	Chemical Kinetics and Nuclear Chemistry	9
701 EE 01	Physical & Health Education	8
701 EE 02	Education for Children with Special Needs	8
701 EE 03	Challenges in Education	8
701 EE 04	Value Education & Education for Human Rights	8
701 EE 05	Peace Education	8
Core Electives and Credits		
354 BI 01	Taxonomy of Higher plants	9
354 BI 02	Fundamentals of soil science	9
354 BI 03	Evolution	9
354 BI 04	Ecology II	9
354 BI 05	Introductory Entomology and Para-sitology	9
354 BI 06	Chemistry for Life Sciences students	9
353 CH 01	Environmental Chemistry Course	8
353 CH 02	Chemistry of Materials	8
353 CH 03	Food Chemistry and Technology	8
353 CH 04	Industrial Chemistry	8

22.2.2 Department of Mathematics and Computational Sciences

The Department teaches Mathematics and Computer Science for Bachelor of Education Degree at NTA Level 8. The department has sufficient physical and human resources that include lecturers, lecturer rooms, laboratories and workshops.

Programmes offered by Department of Mathematics and Computational Sciences

The following programmes are offered by the department of Mathematics and Computational Sciences.

Subject Combinations

Students taking B.Sc. (Ed) programme should take education subject and select two major science subjects when starting first year. The science subjects must form the following combinations:

(i) Mathematics and Computer Science
(ii) Physics and Mathematics
(iii)Physics and Computer Science

Mathematics and Computer Science

Course Modules and Credits

Module Code	Module Name	Credits
Semester I (Year1)		
701CC01	Communication Skills	9
701CC02	Basics of Computers	12
701 ED 51	Educational Philosophy	9
350 MA 51	Introduction to Mathematical Analysis	9

350 MA 52	Introduction to Linear Algebra	9
351 CS 51	Computer Programming	9
351 CS 52	Data Structures and Algorithms	9
Semester II (Year1)		
701 ED 61	Educational Management and School Administration	8
701 ED 62	Educational Psychology	9
701 ED 63	Educational Technology	8
350 MA 61	Calculus for Functions of a Single Variable	9
350 MA 62	Numerical Methods	9
351 CS 61	Computer Organization and Architecture	9
351 CS 62	Operating System	9
COURSE MODULES AND CREDITS: YEAR 2		
Semester III (Year 2)		
701 ED 71	Pedagogy of Teaching	12
	Common Elective	8
701TP01	Teaching Practice I	9
350 MA 71	Differential Equations and its Applications	9
350 MA 72	Vector Analysis and Fourier Analysis	9
351 CS 71	Object Oriented Programming in Java	9
351 CS 72	Computer Graphics	9
Semester IV (Year 2)		
701 ED 81	Educational Guidance & Counseling	8
701 ED 82	Sociology of Education	8

350 MA 81	Analytical Geometry	9
350 MA 82	Mathematical Statistics	9
	Elective In Mathematics	9
351 CS 81	Relational Database Management System	9
351 CS 82	Visual Programming	9
Semester V (Year 3)		
701 CC 03	Environmental Studies	9
701 ED 91	Curriculum development	8
701TP 02	Teaching Practice II	9
350 MA 91	Complex Analysis	9
350 MA 92	Calculus for Functions of Several Variables	9
351 CS 91	Software Engineering	9
351 CS 92	System Analysis and Design	9
	Elective In Computer Science	9
Semester VI (Year 3)		
701 ED 101	Teaching Professionalism	8
701 ED 102	Educational Measurement, Evaluation and Research	9
701 PJ 100	Project	9
350 MA 101	Linear Programming	9
350 MA 102	Graph Theory	9
351 CS 101	Computer Installation and Servicing	9
351 CS 102	Computer Network & Security	9
Electives in Education and Credits		

701 EE 01	Physical & Health Education	8
701 EE 02	Education for Children with Special Needs	8
701 EE 03	Challenges in Education	8
701 EE 04	Value Education & Education for Human Rights	8
701 EE 05	Peace Education	8
Theory Modules		
350 MA 01	Discrete Mathematics	9
350 MA 02	Probability Theory	9
350 MA 03	Modern Algebra	9
351 CS 01	Web Programming	9
351 CS 02	Systems Administration in Linux	9
351 CS 03	Mobile Application Development	9
351 CS 04	Modern Information System Lab	9
351 CS 05	Data Communication and Networking	9

Physics and Mathematics

Course Modules and Credits

Module Code	Module Name	Credits
Semester I (Year 1)		
701CC01	Communication Skills	9
701CC02	Basics of Computers	12
701 ED 51	Educational Philosophy	9
352 PH 51	Classical Mechanics	9

352 PH 52	Physics Practical I	9
350 MA 51	Introduction to Mathematical Analysis	9
350 MA 52	Introduction to Linear Algebra	9
Semester II (Year 1)		
701 ED 61	Educational Management and School Administration	8
701 ED 62	Educational Psychology	9
701 ED 63	Educational Technology	8
352 PH 61	Electricity and Magnetism	9
352 PH 62	Physics Practical II	9
350 MA 61	Calculus for Functions of a Single Variable	9
350 MA 62	Numerical Methods	9
Semester III (Year 2)		
701 ED 71	Pedagogy of Teaching	12
	Common Elective In Education	8
701TP01	Teaching Practice I	9
352 PH 71	Oscillations and Optics	9
352 PH 72	Physics Practical III	9
350 MA 71	Differential Equations and its Applications	9
350 MA 72	Vector Analysis and Fourier Analysis	9
Semester IV (Year 2)		
701 ED 81	Educational Guidance &Counseling	8
701 ED 82	Sociology of Education	8
352 PH 81	Quantum Mechanics and Relativity	9

352 PH 82	Physics Practical IV	9
352PH…..	Elective In Physics	9
350 MA 81	Analytical Geometry	9
350 MA 82	Mathematical Statistics	9
Semester V (Year 3)		
701 CC 03	Environmental Studies	9
701 ED 91	Curriculum development	8
701TP 02	Teaching Practice II	9
352 PH 91	Classical and Statistical Thermodynamics	9
352 PH 92	Electronics	9
350 MA 91	Complex Analysis	9
350 MA 92	Calculus for Functions of Several Variables	9
	Elective In Mathematics	9
Semester VI (Year 3)		
701 ED 101	Teaching Professionalism	8
701 ED 102	Educational Measurement, Evaluation and Research	9
701 PJ 100	Project	9
352 PH 101	Atomic Physics	9
352 PH 102	Solid State Physics	9
350 MA 101	Linear Programming	9
350 MA 102	Graph Theory	9
Electives in Education and Credits		
701 EE 01	Physical & Health Education	8

701 EE 02	Education for Children with Special Needs	8
701 EE 03	Challenges in Education	8
701 EE 04	Value Education & Education for Human Rights	8
701 EE 05	Peace Education	8
Theory Modules		
352 PH 01	Energy Physics	9
352 PH 02	Fundamentals of Materials Science	9
352 PH 03	Nuclear Physics and Elementary Particles	9
350 MA 01	Discrete Mathematics	9
350 MA 02	Probability Theory	9
350 MA 03	Modern Algebra	9

PHYSICSAND COMPUTER SCIENCE

COURSE MODULES AND CREDITS

Module Code	Module Name	Credits
Semester I (Year 1)		
701CC01	Communication Skills	9
701CC02	Basics of Computers	12
701 ED 51	Educational Philosophy	9
352 PH 51	Classical Mechanics	9
352 PH 52	Physics Practical I	9
351 CS 51	Computer Programming	9
351 CS 52	Data Structures and Algorithms	9
Semester II (Year 1)		
701 ED 61	Educational Management and School	8
701 ED 62	Educational Psychology	9
701 ED 63	Educational Technology	8
352 PH 61	Electricity and Magnetism	9
352 PH 62	Physics Practical II	9

351 CS 61	Computer Organization and Architecture	9
351 CS 62	Operating System	9
Semester III (Year 2)		
701 ED 71	Pedagogy of Teaching	12
	Common Elective In Education	8
701TP01	Teaching Practice I	9
352 PH 71	Oscillations and Optics	9
352 PH 72	Physics Practical III	9
351 CS 71	Object Oriented Programming in Java	9
351 CS 72	Computer Graphics	9
Semester IV (Year 2)		
701 ED 81	Educational Guidance & Counseling	8
701 ED 82	Sociology of Education	8
352 PH 81	Quantum Mechanics and Relativity	9
352 PH 82	Physics Practical IV	9
	Elective In Physics	9
351 CS 81	Relational Database Management System	9
351 CS 82	Visual Programming	9
Semester V (Year 3)		
701 CC 03	Environmental Studies	9
701 ED 91	Curriculum development	8
701TP 02	Teaching Practice II	9
352 PH 91	Classical and Statistical Thermodynamics	9
352 PH 92	Electronics	9
351 CS 91	Software Engineering	9
351 CS 92	System Analysis and Design	9
351CS….	ELECETIVE IN COMPUTER SCIENCE	9
Semester VI(Year3)		
701 ED 101	Teaching Professionalism	8
701 ED 102	Educational Measurement, Evaluation and	9
701 PJ 100	Project	9
352 PH 101	Atomic Physics	9
352 PH 102	Solid State Physics	9
Electives in Education and Credits		
701 EE 01	Physical & Health Education	8
701 EE 02	Education for Children with Special Needs	8
701 EE 03	Challenges in Education	8
701 EE 04	Value Education & Education for Human Rights	8
701 EE 05	Peace Education	8
Theory Modules		
352 PH 01	Energy Physics	9
352 PH 02	Fundamentals of Materials Science	9
352 PH 03	Nuclear Physics and Elementary Particles	9

351 CS 01	Web Programming	9
351 CS 02	Systems Administration in Linux	9
351 CS 03	Mobile Application Development	9
351 CS 04	Modern Information System Lab	9
351 CS 05	Data Communication and Networking	9

FACILITIES

The college offers several facilities to all her departments to enrich the students to enable them achieve their goals. The department of Basic Sciences has various laboratories such as Inorganic chemistry lab, Organic chemistry lab, Physical chemistry lab, Water analysis lab, Physics lab, Zoology lab, Botany lab, Computer Science lab, Mathematics lab to provide adequate practical knowledge to the students. The department of Mathematics and Computational Sciences has 200 computers to carter for the practical concept of networking, internet programming, multimedia, components based technology, object oriented programming, data base management, computer installation and servicing, operating system, web technology, open source operating system and basic computer programming laboratories.

23. ST. JOSEPH COLLEGE OF HEALTH AND ALLIED SCIENCES, BOKO DOVYA, DAR ES SALAAM

23.1 Introduction

St. Joseph College of Health and Allied Sciences (SJCHAS) is a campus College of St Joseph University in Tanzania (SJUIT). It is situated along Bagamoyo Road at Boko Dovya, 30 kilometers from the City Center. It is exclusively devoted to programmes in the Health and Allied Sciences. The Mission of SJCHAS is to impart quality and employable education to produce qualified, disciplined and proficient professionals in the Health and Allied Sciences. The College provides a conducive atmosphere for the pursuit of higher education with aims to establish and maintain global standards in the field of Health and Allied Sciences. The students are provided with excellent teaching and learning environment to pursue their academic career goals.

23.2 Departments and Programmes offered

The College has three departments as listed hereunder:

1) Department of Medicine
2) Department of Nursing
3) Department of Pharmacy

The College offers the following programmes:

1) Doctor of Medicine (MD) UQF Level 8
2) Ordinary Diploma in Nursing NTA Level 4-6
3) Ordinary Diploma in Pharmaceutical Sciences NTA Level 4-6

23.2.1 Department of Medicine Programmes

The Department of Medicine offers the degree of Medicine of Medicine (MD) - UQF Level 8. The department has sufficient physical and human resources, including lecture theatres and seminar rooms, state of the art laboratories, and academic and technical staff. The Department of Medicine has five units or sub- departments, namely: Department of Biomedical Sciences, Department of Pathology, Department of Medicine, Department of Surgery, and Department of Public Health and Community Medicine**.**

The Doctor of Medicine is a five-year, 10-semester programme.

Normal learning matrix & Course matrix

SEMESTER 1, Year 1

Course Code	Course Name	Total Credits
AN 101	Anatomy I	21.0
PH 101	Physiology I	18.9
BC 101	Biochemistry I	10.5
BS 101	Behavioral Sciences	9.5
EP 101	Ethics and Professionalism, I	3.1
	Total	**63**

SEMESTER 2, Year 1

Course Code	Course Name	Total Credits
AN 102	Anatomy II	18.9
PH 102	Physiology II	14.7
BC 102	Biochemistry II	10.5
DS 102	Development studies I	6.8
EP 102	Ethics and Professionalism II	3.2
CS 102	Basic Communication Skills	8.9
	Total	**63**

SEMESTER 3, Year 2

Course Code	Course Name	Total Credits
PA 201	Pathology I	15.8
MI 201	Microbiology and Immunology, I	9.5
PE 201	Parasitology and Entomology	9.5
ER 201	Epidemiology and Research Methodology	9.5
CP 201	Clinical Pharmacology I	12.6
DS 201	Development studies II	6.3
	Total	**63**

SEMESTER 4, Year 2

Course Code	Course Name	Total Credits
PA 202	Pathology II	17.9
MI 202	Microbiology and Immunology II	10.5
BD 202	Biostatistics and Demography	9.5
CP 202	Clinical Pharmacology II	14.7
CN 202	Community Health Nutrition	10.5
	Total	**63**

SEMESTER 5 and 6, Year 3: Junior Clerkship

Course Code	Course Name	Total Credits
IM 300	Internal Medicine Junior Clerkship	25.2
MH 300	Pediatrics and Child Health Junior Clerkship	25.2
MS 300	Surgery Junior Clerkship	25.2
OG 300	Obstetrics and Gynecology Junior Clerkship	25.2

EP 300	Ethics and Professionalism III	3.2
CD 300	Control of Communicable Diseases	12.6
RO 300	Radiology	9.5
	Total	**126**

SEMESTER 7 and 8, Year 4: Intermediate Clerkship

Course Code	Course Name	Total Credits
PS 400	Psychiatry	25.2
CM400	Community Medicine	24.2
RP 400	MD Research Project	16.8
OL 400	Otorhinolaryngology	21
OP 400	Ophthalmology	21
AC 400	Anesthesiology and Critical Care Medicine	17.9
	Total	**126**

SEMESTER 9 and 10, Year 5: Senior Clerkship

Course Code	Course Name	Total Credits
IM 500	Internal Medicine Senior Clerkship	25.2
MH 500	Pediatrics and Child Health Senior Clerkship	25.2
MS 500	Surgery Senior Clerkship	25.2
OG 500	Obstetrics and Gynecology Senior Clerkship	25.2
OT 500	Orthopedics and Traumatology	25.2
	Total	**126**

23.2.2 Department of Nursing

Department of Nursing offers Ordinary Diploma in Nursing and Midwifery NTA Level 6. The department has sufficient physical and human resources, including theatres and seminar rooms, state of the art skills laboratories, and academic and technical staff.

Ordinary Diploma in Nursing and Midwifery programme

This is a 3-year, 6 semester programme. Students can exit after 2 years with Technician Certificate in Nursing and Midwifery NTA Level 5 if they complete the first 2 years successfully. Students who complete the 3-year programme

successfully are awarded Ordinary Diploma in Nursing and Midwifery NTA Level 6.

Summary of the Modules

NURSING AND MIDWIFERY NTA LEVEL 4

Module Code	Module Titles	Semester I	Semester II
NMT04101	Infection Prevention and control	√	
NMT04102	Professionalism in Nursing	√	
NMT04103	Human anatomy and Physiology	√	
NMT04104	Basic Computer Applications	√	
NMT04105	Communication Skills	√	
NMT04106	Parasitology and Entomology	√	
NMT04207	Application of Nursing Process and Theories in Nursing Care		√
NMT04208	Basic Clinical Nursing		√
NMT04209	Basic Pharmacology		√
NMT04210	Basics of Health Information Management		√
NMT04211	Disaster and Emergency Preparedness		√
NMT04112	Entrepreneurship		√

NURSING AND MIDWIFERY NTA LEVEL 5

MODULE CODE	MODULE NAME	Semester I	Semester II
NMT 05101	Reproductive Health Care	√	

NMT 05102	Child Health Services	√	
NMT 05103	Care of a Sick Child	√	
NMT 05104	Basic Care of Patient with Medical Conditions	√	
NMT 05105	Basic Care of Patient with Surgical Conditions	√	
NMT 05106	Basics of Mental Health Nursing	√	
NMT 05107	Care of a Woman During Antenatal Period	√	
NMT 05208	Care of a Woman in Normal Labour and Puerperium		√
NMT 05209	Pre-Referral Management of a Woman with Abnormal Pregnancy Labour and Puerperium		√
NMT 05210	Care of a Normal New Born		√
NMT 05211	Management of Communicable Diseases		√
NMT05212	Community Health Nursing		√

NURSING AND MIDWIFERY NTA LEVEL 6

MODULE CODE	MODULE NAME	Semester I	Semester II
NMT 06101	Care of a Woman with Abnormal Pregnancy, Labourand Puerperium	√	
NMT 06102	Care of a Woman with Obstetric Emergency Conditions	√	
NMT 06103	Care of Newborns with Abnormal Conditions	√	
NMT 06104	Supervision in Nursing and Midwifery Practice	√	
NMT 06105	Basics of Epidemiology and Biostatics	√	
NMT 06106	Fundamentals of Research	√	
NMT 06207	Care of Patients with Medical Conditions		√

NMT 06208	Patients with Tumorsand Cancer		√
NMT 06209	Patients with Surgical Conditions		√
NMT 06210	Patients with Reproductive Surgical Conditions		√
NMT 06211	Mental Health Nursing		√

24.2.3 Department of Pharmacy

Department of Nursing offers Ordinary Diploma in Pharmaceutical Sciences NTA Level 6. The department has sufficient physical and human resources, including theatres and seminar rooms, state of the art skills laboratories, and academic and technical staff.

Ordinary Diploma in Pharmaceutical Sciences NTA Level 6 programme

This is a 3-year, 6 semester programme. Students can exit after 2 years with Technician Certificate in Pharmaceutical Sciences NTA Level 5 if they complete the first 2 years successfully. Students who complete the 3-year programme successfully are awarded Ordinary Diploma in Nursing and Midwifery NTA Level 6.

Summary of ModulesPharmaceutical Diploma NTA Level 4

PHARMACEUTICAL SCIENCES LEVEL 4

Code	Module Titles	Total Credits
Semester I		
PST04101	Dispensing	8
PST04102	Disease control and Prevention	10
PST04103	Human anatomy and Physiology	12
PST04104	Pharmaceutical Dosage Forms	4
PST04105	Pharmaceutical Calculations	11
PST04106	Communication Skills	4

PST04107	Basic Computer Applications	6
Semester II		
PST04208	Law and Ethics in Pharmacy Practice	4
PST04209	Compounding of Pharmaceutical Liquid Preparations	20
PST04210	Pharmaceutical Inorganic Chemistry	12
PST04211	Basic Pharmacology	12
PST04212	Medical Stores Keeping	12
PST04213	Pharmacy Practice	3
TOTAL CREDITS		**120**

Pharmaceutical Sciences NTA Level 5

Code	Module Titles	Total Credits
Semester I		
PST05101	Medicine and Medical Supplies Management	12
PST05102	Laws and Policies in Pharmacy Practice	7
PST05103	Pharmaceutical Microbiology	12
PST05104	Pharmacology and Therapeutics	12
PST05105	Rational Use of Medicines	4
PST05106	Pharmaceutical Organic Chemistry	12
Semester II		
PST05207	Quality Assurance of Pharmaceutical Products	12
PST05208	Pharmaceutical theory of Compounding	20
PST05209	Health Information Management	12
PST05210	Basic Pharmacognosy	12

PST05211	Pharmacy Practice	5
TOTAL CREDITS		**120**

Pharmaceutical Sciences NTA Level 6		
Code	**Module Titles**	**Total Credits**
Semester I		
PST06101	Leadership and Management	12
PST06102	Counselling and Guidance Skills	8
PST06103	Pharmaceutical Production	20
PST06104	Health and Medicine Policy	7
PST06105	Health financing	12
PST06106	Basic Pharmacotherapy	6
PST06107	Basic Veterinary Pharmacology	6
Semester II		
PST06206	Pharmaceutical Public Health	8
PST06207	Entrepreneurship	12
PST06208	Operational Research	24
PST06209	Monitoring and evaluation of Medicines Use	12
PST06210	Pharmacy Practice	5
TOTAL CREDITS		**120**

FACILITIES

The college offers several facilities to all SJCHAS departments to equip the students with skills to enable them to achieve their goals. The department of Biomedical Sciences has various laboratories, including Anatomy, Biochemistry, Histology and Physiology. The department of Pathology has two laboratories which include Microbiology and Immunology, and Pathology. The department of Medicine has Pharmacology

laboratory while the Department of Public Health and Community Medicine has ICT laboratory. The ICT Laboratory has 100 computers for students and 2 for teachers. The department of Nursing has three skills laboratories, one each for Anatomy, Medical/Surgical Nursing, and Midwifery. The Pharmacy department has one laboratory for compounding. The college has adequate fixed laboratory equipment pertinent for the programme.

This Prospectus can be reviewed or amended from time to time as deemed necessary and approved by the SJUIT Council.

"WHERE YOUR DREAMS ARE NURTURED".

For further Enquiries contact:

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