

NDDU VISION-MISSION STATEMENT

VISION

Notre Dame of Dadiangas University is a Catholic, Filipino Institution of Academic Excellence established by the Marist Brothers of the Schools (*F.M.S.-Fratres Maristae a Scholis*) characterized by St. Marcellin Champagnat's ideals of simplicity, humility and quiet zeal for God's work as inspired by the Blessed Virgin Mary. The school is dedicated to the formation of persons in all levels of learning, who, as **Christian Leaders, Competent Professionals, Community-Oriented Citizens and Culture-Sensitive Individuals** will actively participate in building a peaceful and progressive nation.

MISSION

As a **Catholic Educational Institution**, NDDU shares in the Church's mission of evangelization by integrating life and faith;

As a **Filipino Institution**, NDDU seeks to preserve Filipino Culture and propagate love of country and its people;

As an **Institution of Quality Education**, NDDU aims leadership in Curricular Programs, Multi-Disciplinary Programs, Research, and Community Service;

As a **Marist Institution**, NDDU promotes the core values of Family Spirit, Marian Spirit, Simplicity, Presence, Preference for the Least Favored, Love of Work, and Integrity of Creation; and

As a **Community-Oriented Institution**, NDDU aims to respond to the challenges of the locality it is serving: South Cotabato, Sultan Kudarat, Sarangani Province and, General Santos City (SOCSKSARGEN Area).

COLLEGE OBJECTIVES

The College of Engineering and Technology aims to:

- Educate students to become Christian leaders, competent professionals. Community-oriented citizens, and culture-sensitive individuals in order to contribute to the professional workforce in Engineering, architecture, and Information Technology
- Serve the Engineering, Architecture, and Information Technology profession and the society through excellence in research and innovation that discovers new knowledge and enable new technologies and systems.
- Embrace a culture of service to the local, national, and international communities

For more information, please see
The University Registrar or
Call (083) 552 4444 local 2211,
or visit us at
www.nddu.edu.ph

COURSES OFFERED

Notre Dame of Dadiangas University started operating its high school department in 1953. In 1959 the school offered the following courses: Liberal Arts, Commerce and one (1) year Secretarial course. However, NDDU endeavors to keep up with the demands of the times and with the modern trends in education, as well as to contribute to the manpower building of the General Santos community and of the country. To attain these, it now offers more programs relevant to the needs of the country. The following are the programs:

POST GRADUATE

- Doctor in Management *major in Human Resource Management*
- Doctor of Philosophy in Education
- Doctor of Philosophy in Language Education
- Doctor of Philosophy in Science Education *major in Biology*

GRADUATE with Accreditation Level

- Master in Business Administration (Thesis & Non-Thesis) *PAASCU Level I*
- Master in Public Administration (Thesis & Non-Thesis) *PAASCU Level I*
- Master of Arts in Education *PAASCU Level I*
Major: *Mathematics, Teaching English as a Second Language*
Guidance and Counseling Early Childhood Education
Educational Management Science Education
Religious Education
- Master in Engineering Program *major in Civil Engineering*
- Master of Arts in Nursing

UNDERGRADUATE with Accreditation Level

Five Year Courses	
• BS Architecture	• BS Electrical Engineering
• BS Civil Engineering <i>PAASCU Level II</i>	• BS Electronics and Communications Eng'g
• BS Computer Engineering	• BS Industrial Engineering <i>PAASCU Level I</i>
Four Year Courses	
• BS Accountancy <i>PAASCU Level II</i>	• BS Accounting Technology <i>PAASCU Level II</i>
• Bachelor of Arts <i>PAASCU Level IV</i> Major: <i>Economics</i> <i>English</i> <i>Political Science,</i> <i>Psychology</i> <i>Communication</i>	• BS Business Administration <i>PAASCU Level IV</i> Major: <i>Business Economics</i> <i>Financial Management</i> <i>Marketing Management</i> <i>Management</i> <i>Management Accounting</i>
• BS Biology (BSBio) <i>PAASCU Level III</i>	• BS Tourism Management
• BS Hotel and Restaurant Management	• BS Computer Science (BSCS) <i>PAASCU Level II</i>
• Bachelor of Elem. Educ. <i>PAASCU Level IV</i> Major in: <i>General Education</i> <i>Pre-school Education</i> <i>Special Education</i>	• Bachelor of Secondary Education <i>Level IV</i> Major in: <i>English</i> <i>Biological Sciences</i> <i>Mathematics,</i> <i>Religious Education</i> <i>Music, Arts, PE and Health (MAPEH)</i>
• BS Entrepreneurship	• BS Environmental Science
• BS Information Technology <i>PAASCU Level I</i>	• BS Library & Information Science
• BS Mathematics <i>PAASCU Level IV</i>	• BS Medical Technology
• BS Nursing <i>PAASCU Level III</i>	• BS Office Administration <i>PAASCU Level IV</i>
• BS Pharmacy (BSPPharm)	

TWO YEAR COURSES

*Associate in Office Administration (AOA)

*Associate in Entrepreneurship (AEn)

K – 12 BASIC EDUCATION PROGRAM - ELEM(Level III); SECONDARY(Level II) - Lagao Campus

ALTERNATIVE SECONDARY EDUCATION – Lagao Campus

K – 12 BASIC EDUCATION PROGRAM - Espina Campus

NDDU TECHNICAL/VOCATIONAL COURSES - TESDA Accredited

MARIST TECHNICAL TRAINING PROGRAM (MTP) - TESDA Accredited

College of Engineering and Technology NOTRE DAME OF DADIANGAS UNIVERSITY

Marist Avenue, General Santos City



Course Catalogue

BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY

(Government Recognition No 021 Series of 2011)

Effective SY 2018 – 2019

Student's Signature	
Student's Name	
Contact Number	
Email Address	

THE FOUR-YEAR CURRICULUM LEADING TO THE DEGREE
BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY
Per CHED Memorandum Order (CMO) No. 25, Series of 2015
Effective SY 2018 – 2019

COURSE DESCRIPTION

Bachelor of Science in Information Technology program includes the study of the utilization of both hardware and software technologies involving planning, installing, customizing, operating, managing and administering, and maintaining information technology infrastructure that provides computing solutions to address the needs of organization.

The program prepares graduates to address various user needs involving the selection, development, application, integration and management of computing technologies within an organization.

PROGRAM OUTCOMES

At the end of the degree program, the students should:

1. Apply knowledge of computing, science, and mathematics appropriate to the discipline;
2. Understand the best practices and standards and their application in the field of Information Technology;
3. Analyze complex problems, and identify and define the computing requirements appropriate to its solutions;
4. Identify and analyze user needs and take them into account in the selection, creation, evaluation and administration of computer-based systems;
5. Design, implement, and evaluate computer-based systems, processes, components, or programs to meet desired needs and requirements under various constraints;
6. Integrate IT-based solutions into the user environment effectively;
7. Apply knowledge through the use of current techniques, skills, tools and practices necessary for the IT profession;
8. Function effectively as a member or leader of a development team recognizing the different roles within a team to accomplish a common goal;
9. Assist the creation of an effective IT project plan;
10. Communicate effectively with the computing community and with society at large about complex computing activities through logical writing, presentations, and clear instructions; and
11. Acquire and internalize Christian values of Honesty, Punctuality, and Family spirit, among others, anchored on the ideals of Saint Marcellin Champagnat and Mother Mary in the practice of Information Technology profession.

Reminders

- Student shall be responsible to write their official grades on the space provided.
- Student shall always make this document available for evaluation purposes, especially during enrolment.
- For Non-Catholics, RE 114 and RE 115 could be replaced with RE 40 and RE 30 respectively.
- NSTP 1, NSTP 2, PGS 1 and PGS 2 must be taken during the First Year.
- 3rd year standing – must have completed all first year to second year subjects
- 4th year standing – must have completed all first year to third year subjects

FIRST YEAR – FIRST SEMESTER						
Grade	Cat. #	Descriptive Title	# of Hrs/Wk		Units	Pre-Req
			Lec	Lab		
	RE 111	Salvation Hist. Old Testament	3	0	3	
	GE 2	Readings in Philippine History	3	0	3	
	GE 3	Mathematics in Modern World	3	0	3	
	GE 5	Purposive Communication	3	0	3	
	CCC 110	Introduction to Computing	3	0	3	
	CCC 111	Computer Programming 1	2	3	3	
	PE 1	Physical Fitness and Self-Testing Activities	2	0	2	
	PGS 1	Personal Growth Session 1	3	0	0	
	NSTP 1	National Service Training Program 1	3	0	3	
Total			25	3	23	

FIRST YEAR – SECOND SEMESTER						
Grade	Cat. #	Descriptive Title	# of Hrs/Wk		Units	Pre-Req
			Lec	Lab		
	RE 112	Christology	3	0	3	RE 111
	GE 1	Understanding the Self	3	0	3	
	GE 10	Kontekstwalisadong Komunikasyon sa Filipino	3	0	3	
	CCC 120	Computer Programming 2	2	3	3	CCC 110, CCC 111
	IT-EPC 121	Discrete Mathematics	3	0	3	
	IT-EPC 122	Introduction to Human Computer Interaction	3	0	3	CCC 111
	PE 2	Rhythmic Activities	2	0	2	PE 1
	PGS 2	Personal Growth Session 2	3	0	0	PGS 1
	NSTP 2	National Service Training Program 2	3	0	3	NSTP 1
Total			25	3	21	

SECOND YEAR – FIRST SEMESTER						
Grade	Cat. #	Descriptive Title	# of Hrs/Wk		Units	Pre-Req
			Lec	Lab		
	RE 113	Christian Faith	3	0	3	RE 112
	GE 8	Ethics	3	0	3	
	GE 9	Life and Works of Rizal	3	0	3	
	CCC 210	Data Structures and Algorithms	2	3	3	CCC 120
	IT-ITE 211	IT Elective 1	3	0	3	
	IT-EPC 212	Integrative Programming and Technologies	2	3	3	CCC 120
	PE 3	Recreational Activities (Individual and Dual Sports)	2	0	2	PE 2
Total			18	6	20	

SECOND YEAR – SECOND SEMESTER						
Grade	Cat. #	Descriptive Title	# of Hrs/Wk		Units	Pre-Req
			Lec	Lab		
	RE 114	The Church	3	0	3	RE 113
	GE 4	Contemporary World	3	0	3	
	GE 11	Filipino sa Iba't-Ibang Disiplina	3	0	3	
	CCC 220	Information Management 1	2	3	3	CCC 210
	IT-ITE 221	IT Elective 2	3	0	3	
	IT-EPC 222	Networking 1	2	3	3	
	IT-EPC 223	Quantitative Methods (With Modeling and Simulation)	2	3	3	IT-EPC 121
	PE 4	Team Sports	2	0	2	PE 3
Total			17	9	22	

THIRD YEAR – FIRST SEMESTER						
Grade	Cat. #	Descriptive Title	# of Hrs/Wk		Units	Pre-Req
			Lec	Lab		
	RE 115	Liturgy and Sacraments	3	0	3	RE 114
	GE 7	Art Appreciation	3	0	3	
	GE 13	Sosyedad at Literatura/Paniitikan Panlipunan	3	0	3	
	IT-EPC 310	Fundamentals of Database Systems	2	3	3	CCC 220
	IT-ITE 311	IT Elective 3	3	0	3	
	IT-EPC 312	Networking 2	2	3	3	IT-EPC 222
	IT-EPC 313	Systems Integration and Architecture 1	2	3	3	
Total			18	9	21	

THIRD YEAR – SECOND SEMESTER						
Grade	Cat. #	Descriptive Title	# of Hrs/Wk		Units	Pre-Req
			Lec	Lab		
	RE 116	Christian Morality	3	0	3	RE 115
	IT-EPC 320	System Administration and Maintenance	2	3	3	3rd year standing
	IT-ITE 321	IT Elective 4	3	0	3	
	IT-EPC 322	Information Assurance and Security 1	2	3	3	IT-EPC 313
	IT-EPC 323	Social and Professional Issues	3	0	3	3rd year standing
	CCC 324	Application Development and Emerging Technologies	3	0	3	IT-EPC 310
Total			16	6	18	

THIRD YEAR – SUMMER						
Grade	Cat. #	Descriptive Title	# of Hrs/Wk		Units	Pre-Req
			Lec	Lab		
	IT-EPC 410	Capstone Project and Research 1	2	3	3	4th year standing
Total			2	3	3	

FOURTH YEAR – FIRST SEMESTER						
Grade	Cat. #	Descriptive Title	# of Hrs/Wk		Units	Pre-Req
			Lec	Lab		
	GE 6	Science, Technology and Society	3	0	3	
	IT-EPC 411	Information Assurance and Security 2	2	3	3	IT-EPC 313
	IT-EPC 412	Capstone Project and Research 2	2	3	3	IT-EPC 410
Total			7	6	9	

FOURTH YEAR – SECOND SEMESTER						
Grade	Cat. #	Descriptive Title	# of Hrs/Wk		Units	Pre-Req
			Lec	Lab		
	IT-EPC 420	Practicum	6	0	6	4th year standing
Total			6	0	6	

BSIT SUGGESTED ELECTIVES						
Descriptive Title	# of Hrs/Wk	Units	Pre-Req			
	Lec	Lab				
Artificial Intelligence	3	0	3	IT-EPC 223		
Business Intelligence and Data Warehousing	3	0	3	IT-EPC 223		
Digital Media	3	0	3	IT-EPC 223		
Electronic Commerce	3	0	3	IT-EPC 310		
Enterprise Application Development	3	0	3	IT-EPC 223		
Event-Driven Programming	3	0	3	IT-EPC 223		
Human Computer Interaction 2	3	0	3	IT-EPC 122		
Integrative Programming and Technologies 2	3	0	3	IT-EPC 313		
Logic Design and Digital Computer Circuits	3	0	3	CCC 210		
Mobile Application Development	3	0	3	IT-EPC 223		
Platform Technologies	3	0	3	CCC 120		
Systems Integration and Architecture 2	3	0	3	IT-EPC 313		
Web Systems and Technologies	3	0	3	IT-EPC 223		