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

ajor: Mathematics, Guidance and Counseling Teaching English as a Second Language Early Childhood Education Science Education

Educational Management 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 PAASCU Level II	BS Electronics and Communications Eng'g					
BS Computer Engineering	BS Industrial Engineering PAASCU Level I					
FV.	0					
	r Courses					
BS Accountancy PAASCU Level II	BS Accounting Technology PAASCU Level II					
Bachelor of Arts PAASCU Level IV	BS Business Administration PAASCU Level IV					
Major: Economics	Major: Business Economics					
English	Financial Management					
Political Science,	Marketing Management					
Psychology	Management					
Communication	Management Accounting					
BS Biology (BSBio) PAASCU Level III	BS Tourism Management					
BS Hotel and Restaurant Management	BS Computer Science (BSCS) PAASCU Level II					
Bachelor of Elem. Educ. PAASCU Level IV	Bachelor of Secondary Education Level IV					
Major in: General Education	Major in: English					
Pre-school Education	Biological Sciences					
Special Education	Mathematics,					
	Religious Education					
	Music, Arts, PE and Health (MAPEH)					
BS Entrepreneurship	BS Environmental Science					
BS Information Technology PAASCU Level I	BS Library & Information Science					
BS Mathematics PAASCU Level IV	BS Medical Technology					
BS Nursing PAASCU Level III	BS Office Administration PAASCU Level IV					
BS Pharmacy (BSPharm)						
TWO YEAD COLIDGES	·					

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 (MTTP) - TESDA Accredited

College of Engineering and Technology NOTRE DAME OF DADIANGAS UNIVERSITY

Marist Avenue, General Santos City



Course Catalogue

BACHELOR OF SCIENCE IN ENTERTAINMENT AND MULTIMEDIA COMPUTING Major in Digital Animation—Technology

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 ENTERTAINMENT AND MULTIMEDIA COMPUTING (BSEMC)

Major in Digital Animation-Technology

Per CHED Memorandum Order (CMO) No. 2, Series of 2014 Effective SY 2018 – 2019

COURSE DESCRIPTION

Bachelor of Science in Entertainment and Multimedia Computing is the study and use of concepts, principles, and techniques of computing in the design and development of multimedia products and solutions. It includes various applications such as in science, entertainment, education, simulations and advertising.

The program enables the students to be knowledgeable of the whole pipeline of Game Development and Digital Animation projects. The students will acquire the independence and creative competencies to articulate project design and requirements of new projects, not necessarily based on standard templates.

PROGRAM OUTCOMES

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

- Apply knowledge of mathematics, physical sciences, computing sciences to the practice of being an entertainment and multimedia computing professional;
- Apply specialized computing knowledge in each applicable field to provide solutions in actual problems;
- Design, build, improve, and deploy multimedia products that meet client needs within realistic constraints:
- 4. Use the appropriate techniques, skills and modern computing tools necessary for the practice of being a professional game developer or animator;
- Work effectively in multi-disciplinary and multi-cultural teams;
- Understand and assess local and global impacts of computing on society relevant to professional computing practice and subscription to accepted industry standards;
- Understand the effects and impact of entertainment and multimedia computing projects on nature and society, and of their social and ethical responsibilities;
- 8. Create or use modified artefacts in consideration of intellectual property rights of the author:
- Engage in life-long learning and acceptance of the need to keep current of the development in the specific field of specialization:
- 10. Demonstrate original creative outputs, innovativeness, and client-centric service; and
- 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.#	Cat.#	Descriptive Title	# of Hrs/Wk		Units	Pre-Rea					
Orauc	Out. #	Becompare riae	Lec	Lab	Omio	7707109					
	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 F	# of Hrs/Wk		Pre-Rea		
Grade	Cal.#	Descriptive ritte	Lec	Lab	Units	rre-keq		
	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 111		
	EMC-EPC 121	Freehand and Digital Drawing	2	3	3			
	EMC-EPC 122	Script Writing and Storyboard Design	3	0	3	CCC 110		
	PE 2	Rhythmic Activities	2	0	2	PE 1		
	NSTP 2	National Service Training Program 2	3	0	3			
	PGS 2	Personal Growth Session 2	3	0	0	PGS 1		
		Tota	24	6	23			

	SECOND YEAR – FIRST SEMESTER								
Grade	Cat.#	Descriptive Title	# of Hrs/Wk		Units	Pre-Reg			
0,440		, , , , , , , , , , , , , , , , , , ,	Lec	Lab	•				
	RE 113	Christian Faith	3	0	3	RE 112			
	GE 7	Art Appreciation	3	0	3				
	GE 13	Sosyedad at Literatura/Panitikang Panlipunan	3	0	3				
	CCC 210	Data Structures and Algorithm	2	3	3	CCC 120			
	CCC 220	Information Management	2	3	3	CCC 120			
	EMC-EPC 211	Introduction to Game Design and	3	0	3	CCC 120			
		Development							
	EMC-EPC 212	Audio Design and Sound Engineering	3	0	3				
	PE 3	Recreational Activities (Individual and Dual	2	0	2	PE 2			
		Sports)							
		Total	21	6	23				

	SECOND YEAR – SECOND SEMESTER								
Grade	Cat.#	Descriptive Title	# of Hrs/Wk		Units	Pre-Rea			
Graue	Cat. #	Descriptive ride	Lec	Lab	Ullits	rie-keq			
	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				
	EMC-EPC 221	Computer Graphics Programming	2	3	3	EMC-EPC 121			
	EMC-EPC 222	Principles of 2D Animation	2	3	3	EMC-EPC 121			
	EMC-EPC 223	Usability, HCI, and User Interaction Design	3	0	3	CCC 120			
	CCC 324	Application Development and Emerging	3	0	3	CCC 120			
		Technologies							
	PE 4	Team Sports	2	0	2	PE 3			
		Total	21	6	23				

	THIRD YEAR – FIRST SEMESTER								
Grade	Cat.#	Descriptive Title	# of Hrs/Wk		Units	Pre-Rea			
Grade	Cat. #		Lec	Lab	Units	rre-Key			
	RE 115	Liturgy and Sacraments	3	0	3	RE 114			
	GE 8	Ethics	3	0	3				
	GE 9	The Life and Works of Rizal	3	0	3				
	EMC-EPC 310	Advanced 2D Animation	2	3	3	EMC-EPC 222			
	EMC-EPC 311	Principles of 3D Animation	3	0	3	EMC-EPC 222			
	EMC-EPC 312	Advanced Sound Production	2	3	3	EMC-EPC 212			
	EMC-EPC 313	Image and Video Processing	3	0	3	CCC 210			
		Total	19	6	21				

	THIRD YEAR – SECOND SEMESTER								
Grade	Cat.#	Descriptive Title # 0	# of Hrs/Wk		Units	Pre-Rea			
Grade	Cat.#	Descriptive Title	Lec	Lab	Units	Pre-Req			
	RE 116	Christian Morality	3	0	3	RE 115			
	EMC-EPC 320	Advanced 3D Animation and Scripting	2	3	3	EMC-EPC 311			
	EMC-EPC 321	Lightning and Effects	3	0	3	EMC-EPC 311			
	EMC-EPC 322	Modelling and Rigging	3	0	3	EMC-EPC 311			
	EMC-EPC 323	Compositing and Rendering	3	0	3	EMC-EPC 311			
	EMC-EPC 324	Design and Production Process	3	0	3	EMC-EPC 211			
	EMC-PE 325	EMC Professional Elective 1	2	3	3	3rd year standing			
		Total	19	6	21				

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

	FOURTH YEAR – FIRST SEMESTER										
Grade	Cat. #	Descriptive Title		# of Hrs/Wk		# of Hrs/Wk		# of Hrs/Wk		Units	Pre-Req
				Lec	Lab						
	GE 6	Science, Technology and Society		3	0	3					
	EMC-EPC 411	Capstone Project 2		2	3	3	EMC-EPC 410				
	EMC-EPC 412	Animation Design and Production		3	0	3	4th year standing				
	EMC-EPC 413	Texture Mapping		3	0	3	EMC-EPC 311				
	EMC-PE 414	EMC Professional Elective 2		2	3	3	4th year standing				
	EMC-PE 415	EMC Professional Elective 3		2	3	3	4th year standing				
			Total	15	9	18					

	FOURTH YEAR – SECOND SEMESTER							
Grade	Cat.#	Descriptive Title	# of H	rs/Wk	Units	Pre-Req		
			Lec	Lab				
	EMC-EPC 420	Internship (486 Hours)	9	0	9	4th year standing		
		Total	9	0	9			

BSEMC SUGGESTED PROFESSIONAL ELECTIVES								
Descriptive Title	# of H	rs/Wk	Units	Pre-Rea				
<u>'</u>	Lec	Lab	Units	rie-keq				
Game Programming 1	3	0	3					
Game Programming 2	3	0	3					
Applied Mathematics for Games	3	0	3					
Applied Game Physics	3	0	3					
Game Programming 3	3	0	3					
Artificial Intelligence in Games	3	0	3					
Advanced Game Design	3	0	3					
Game Networking	3	0	3					
Game Production	3	0	3					