

Dual Degree Program:
M.Tech. (CAD/CAM) from VIT University
&

Master in Mechanical Engineering from Université François Rabelais de Tours

Courses to be completed in I year at VIT

Sl.No.	COURSE	CODE	COURSE TITLE	L	T	P	C
1	ENG	601	Foreign Language-Basic French	0	0	4	2
2	MAT	502	Applied Engineering Mathematics	3	1	0	4
3	MEE	557	Advanced Materials and Processing	3	0	0	3
4	MEE	521	Finite Element Methods	2	1	2	4
5	MEE	522	Computer Integrated Manufacturing	2	1	2	4
6	MEE	523	Advanced Strength of Materials	2	1	0	3
7	MEE	549	Advanced Vibration Engineering	2	1	0	3
8	MEE	564	Computer Graphics and Geometric modeling	2	1	2	4
9	MEE	551	Advanced Manufacturing Technology	3	0	2	4
			SET Conference-I				2
			SET Conference-II				2
			Elective s (Two or three courses)				7
			Total Credits				42

Courses to be completed in II year at Université François Rabelais de Tours

Sl.No.	COURSE	CODE	COURSE TITLE	Examination Several tests	Examination Final test	UFRT student hours	UFRT credit	Equivalent VIT Credit
1		TU1	Mechanical Properties of Advanced Materials	x		(7T+9L+9P)	4	3
2		TU2	Acoustics and vibration		x	(10T+9L+6P)	4	3
3		TU3	Heat Transfer	x		(10T+6L+9P)	4	3
4		TU4	Piezoelectric Materials and applications		x	(10T+9L+6P)	4	3
5		TU5	French Language and French culture, Job training	x		(10T+9L+10P)	6	2
6		TU6b TU6c	Behaviour of polymers and elastomers (or) Material Fatigue	x		(7T+9L+9P)	4	3
7		TU7b TU7c	Numerical modeling of materials and components (or) Surface engineering	x		(10T+6L+9P)	4	3
8		TU8	Research Internship	x		5 Months)	30	16
			Total Credits				60	36

Minimum Qualifying credits	78
Credits at VIT	42
Credits at UFRT	36

Dual Degree Program
M.Tech. (MANUFACTURING) from VIT University
&
Master in Mechanical Engineering from Université François Rabelais de Tours

Courses to be completed in I year at VIT

Sl.No.	COURSE	CODE	COURSE TITLE	L	T	P	C
1	ENG	601	Foreign Language-Basic French	0	0	4	2
2	MAT	502	Applied Engineering Mathematics	3	1	0	4
3	MEE	521	Finite Element Methods	2	1	2	4
4	MEE	522	Computer Integrated Manufacturing	2	1	2	4
5	MEE	528	Fluid Power System and Factory Automation	3	0	2	4
6	MEE	547	Quality Management	3	0	0	3
7	MEE	557	Advanced Materials and Processing	3	0	0	3
8	MEE	566	Modern Machining Processes	3	0	0	3
9	MEE	567	CNC Technology and Programming	3	0	2	4
			SET Conference-I				2
			SET Conference-II				2
			Elective (Two or three electives)				7
			Total Credits				42

Courses to be completed in II year at Université François Rabelais de Tours

Sl.No.	COURSE	CODE	COURSE TITLE	Examination Several tests	Examination Final test	UFRT student hours	UFRT credit	Equivalent VIT Credit
1		TU1	Mechanical Properties of Advanced Materials	x		(7T+9L+9P)	4	3
2		TU2	Acoustics and vibration		x	(10T+9L+6P)	4	3
3		TU3	Heat Transfer	x		(10T+6L+9P)	4	3
4		TU4	Piezoelectric Materials and applications		x	(10T+9L+6P)	4	3
5		TU5	French Language and French culture, Job training	x		(10T+9L+10P)	6	2
6		TU6b TU6c	Behaviour of polymers and elastomers (or) Material Fatigue	x		(7T+9L+9P)	4	3
7		TU7b TU7c	Numerical modeling of materials and components (or) Surface engineering	x		(10T+6L+9P)	4	3
8		TU8	Research Internship	x		5 Months)	30	16
			Total Credits				60	36

Minimum Qualifying credits	78
Credits at VIT	42
Credits at UFRT	36

M2RI EME : Research Master in Electronics and Mechanical Engineering - Mechanical Engineering Program

2014-2015	COURSES	Volume (number of hours)			ECTS
		L	TD	TP	
1 th semester					
TU 1: MSX ^C	Mechanical Properties of Advanced Materials	7	9	9	4
TU 2: PMA ^C	Piezoelectric Materials and their Applications	10	9	6	4
TU 3: TT ^C	Heat transfer	10	6	9	4
TU 4: AV ^C	Acoustics and vibrations	10	9	6	4
TU 5: FFL/PPA ^C	French as a Foreign Language /Preparation to Professional Activity	10	10	10	6
1 among 2					
TU 6b: BPE ^M	Behavior of Polymers and Elastomers	7	9	9	4
TU 6c: MF ^M	Material Fatigue	7	9	9	4
1 among 2					
TU 7b: NM ^M	Numerical Modeling of Materials	10	6	9	4
TU 7c: SP ^M	Surface Properties	10	6	9	4
		64	58	58	30
2 nd semester - Internship					
TU 8: Internship	5 month Internship				30
					30

L Lectures
 TD Tutored work
 TP Practical work

Methods of assessment

The Board of Studies and University Life (CEVU) of July 3rd 2008, unanimously adopted CEVU amendment of September 17th 2009. The Board of Directors of September 15th, 2008, unanimously adopted on September 28, 2009:

MASTER'S DEGREE

Pursuant to the order of April 9th, 1997, decrees 2002-480,481,482 of April 8th, 2002, and order of April 25th, 2002, relative to the national master's degree:

1. A Bachelor's degree holder student is by rights granted access in the same field for the first 60 European credits. Admission to the 2nd year of Master's degree is granted by the President of the University upon proposal from the academic staff.
2. The Master's degree is granted when 120 European credits have been obtained beyond the Bachelor's degree.
3. Methods of assessment are established in every degree no later than the end of the first month of the academic year and cannot be amended during that same year.

Exceptional provisions:

In the event of exceptional circumstances assessed on an individual basis by the President or acting on his/her authority, by the Vice-President of the CEVU, "continuous assessment may be replaced by a final examination that remains to be defined. In addition to this, should the course include a final examination, it may be replaced by other methods of assessment that will be defined according to the circumstances."

These provisions must be validated by the appropriate boards.

4. A special study program including adjustments for assessment is defined for each degree and for certain categories of students, such as students who hold jobs or have specific duties in academic or student life (which comprises students who have been elected to the three university boards and the board of directors of the CROUS), students enrolled in dual degrees, students with families, disabled students and athletes.
5. A table specifying the methods of assessment, including those under the special study program (type of test, factors for each course component and each course unit) is completed and attached to the course table.
6. Two testing sessions are organized per semester. Second session examinations of the first and second semesters are held either within two months at least of the first session, or within two weeks at least of the first session, provided that the second session is preceded by an Individual Academic Program. Dissertations and internship reports take place in a single session.
7. Different course components that make up a course unit may compensate for each other.
8. Course units within the same semester may compensate for each other; this is set up over the same semester based on the average of grades obtained for different course units weighted by factors. **The internship /individual dissertation grade cannot make up for the grades of other units (or other courses and activities) and vice-versa:** this provision is valid for all M2 and M1 with a long internship or a dissertation based on an introduction to research. All grades from other units are included in this system: if the average of all these units stands below 10/20, students will have to re-sit for all the units whose average grade score below 10/20. Students retain the benefit of the course units they have obtained.

9. There is no compensation between semesters.

10. Course components for which students have obtained an average grade are acquired once and for all. Obtaining a course component entails that the corresponding European credits are obtained.

11. Course units for which students have obtained an average grade are acquired once and for all. Obtaining a course unit entails that the corresponding European Credits are obtained (30 credits per semester).

12. The intermediary Master's degree conferring 60 European Credits is awarded after the 1st year-Master examining committee's due deliberation and upon the student's request.

13. The Master's degree is awarded at the end of four semesters after the examining committee's due deliberation, granting 120 credits, provided that the student scores **at least 300** at the TCF and **at least 650** at the TOEIC. The TCF and TOEIC tests may be replaced by other equivalent tests.

14. A Master's degree is awarded based on both semesters of M2. Repeating the second year is not accepted, except under exceptional circumstances to be assessed by the examining committee and upon decision of the President of the University

Methods of assessment: VIT University:

M.Tech. (CAD/CAM) and M.Tech. (Manufacturing Engineering) follow the Fully Flexible Credit System (FFCS) through which the students must finish 73 Credits to qualify for the award of degree. VIT University follows Research Based Learning (RBL) for which the assessment procedure is as follows:

1. Continuous assessment Marks : 55%

2. Term End Examination: 45%

Total Marks: 100%

Grading Scheme: Relative Grading

Absolute Grading will be following if the students in a class is less than 10 numbers.

3. The students should do a mini research project in every semester which carry 2 credits and present in "International Conference on Science, Engineering and Technology" which will be held at VIT university.