

SEMESTER <i>Second</i>	DEPARTMENT <i>General Engineering</i>	COURSE TITLE <i>Mathematics II</i>
COURSE CODE <i>EG201</i>	HOURS: 3 UNITS: 3	COURSE SPECIFICATIONS <i>Theoretical Contents</i>
1. Integration: <ul style="list-style-type: none"> ➤ Indefinite integrals. ➤ Integrals methods. ➤ Integration by substitution. ➤ Integration of exponential functions. ➤ Trigonometric functions and inverse of trigonometric functions. 		
2. Partial Fractions Method and Partial Integration.		
3. Definite Integrals and Their Application.		
4. Double Integrals and Third integrals.		
5. Fourier Series: <ul style="list-style-type: none"> ➤ Definition. ➤ Odd and even functions. ➤ Periodic functions. ➤ Several special integrals. ➤ Fourier coefficients. ➤ Fourier series on interval $(- ,)$. ➤ Fourier interval on $(-L , L)$. 		
References: <p>حساب التفاضل والتكامل والهندسة التحليلية , – – ,1974 .</p>		