



Nagar Yuwak Shikshan Sanstha's
Yeshwantrao Chavan College of Engineering
 (An Autonomous Institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

B.E. SCHEME OF EXAMINATION 2018-19

First Year BE

SN	Sem	Sub. Code	Type	Subject	T/P	Contact Hours				Credits	% Weightage				ESE Duration Hours
						L	T	P	Hrs		MSE-I	MSE-II	TA	ESE	
First Semester Group "A"															
1	1	GE2101	BS	Engineering Mathematics I	T	3	1	0	4	4	15	15	10	60	3
2	1	GE2105	BS	Engineering Physics	T	4	0	0	4	4	15	15	10	60	3
3	1	GE2106	BS	Lab.: Engineering Physics	P	0	0	2	2	1			40	60	
4	1	GE2107	HS	Communications Skills	T	3	0	0	3	3	15	15	10	60	3
5	1	CV2101	BES	Engineering Mechanics	T	3	1	0	4	4	15	15	10	60	3
6	1	CV2102	BES	Lab.: Engineering Mechanics	P	0	0	2	2	1			40	60	
7	1	IT2101	BES	Introduction to Computer Programming	T	3	1	0	4	4	15	15	10	60	3
8	1	IT2102	BES	Lab.: Introduction to Computer Programming	P	0	0	2	2	1			100		
9	1	ME2103	BES	Workshop Practice	P	0	0	2	2	1			40	60	
TOTAL						16	3	8	27	23					
First Semester Group "B"															
1	1	GE2102	BS	Engineering Mathematics II	T	3	1	0	4	4	15	15	10	60	3
2	1	GE2103	BS	Engineering Chemistry	T	4	0	0	4	4	15	15	10	60	3
3	1	GE2104	BS	Lab.: Engineering Chemistry	P	0	0	2	2	1			40	60	
4	1	GE2108	HS	Social Sciences	T	3	0	0	3	3	15	15	10	60	3
5	1	EL2101	BES	Electrical Engineering	T	3	1	0	4	4	15	15	10	60	3
6	1	EL2102	BES	Lab.: Electrical Engineering	P	0	0	2	2	1			40	60	
7	1	ME2101	BES	Engineering Graphics	T	1	0	0	1	1	15	15	10	60	3
8	1	ME2102	BES	Lab.: Engineering Graphics	P	0	0	4	4	2			100		
9	1	EE2101	BES	Basic Electronics	T	3	1	0	4	4	15	15	10	60	3
TOTAL						17	3	8	28	24					

List of Audit Courses (First Sem Group "A")										
1	1	GE2122	HS	Functional English-I	A	3	0	0	3	0
OR										
2	1	GE2123	HS	Functional English-V	A	3	0	0	3	0

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B.E. SCHEME OF EXAMINATION 2018-19

First Year BE

SN	Sem	Sub. Code	Type	Subject	T/P	Contact Hours				Credits	% Weightage				ESE Duration Hours
						L	T	P	Hrs		MSE-I	MSE-II	TA	ESE	

Second Semester Group "A"															
1	2	GE2102	BS	Engineering Mathematics II	T	3	1	0	4	4	15	15	10	60	3
2	2	GE2103	BS	Engineering Chemistry	T	4	0	0	4	4	15	15	10	60	3
3	2	GE2107	BS	Lab.: Engineering Chemistry	P	0	0	2	2	1			40	60	
4	2	GE2108	HS	Social Sciences	T	3	0	0	3	3	15	15	10	60	3
5	2	EL2101	BES	Electrical Engineering	T	3	1	0	4	4	15	15	10	60	3
6	2	EL2102	BES	Lab.: Electrical Engineering	P	0	0	2	2	1			40	60	
7	2	ME2101	BES	Engineering Graphics	T	1	0	0	1	1	15	15	10	60	3
8	2	ME2102	BES	Lab.: Engineering Graphics	P	0	0	4	4	2			100		
9	2	EE2101	BES	Basic Electronics	T	3	1	0	4	4	15	15	10	60	3
TOTAL						17	3	8	28	24					

Second Semester Group "B"															
1	2	GE2101	BS	Engineering Mathematics I	T	3	1	0	4	4	15	15	10	60	3
2	2	GE2105	BS	Engineering Physics	T	4	0	0	4	4	15	15	10	60	3
3	2	GE2106	BS	Lab.: Engineering Physics	P	0	0	2	2	1			40	60	
4	2	GE2107	HS	Communications Skills	T	3	0	0	3	3	15	15	10	60	3
5	2	CV2101	BES	Engineering Mechanics	T	3	1	0	4	4	15	15	10	60	3
6	2	CV2102	BES	Lab.: Engineering Mechanics	P	0	0	2	2	1			40	60	
7	2	IT2101	BES	Introduction to Computer Programming	T	3	1	0	4	4	15	15	10	60	3
8	2	IT2102	BES	Lab.: Introduction to Computer Programming	P	0	0	2	2	1			100		
9	2	ME2103	BES	Workshop Practice	P	0	0	2	2	1			40	60	
TOTAL						16	3	8	27	23					

List of Audit Courses (Second Sem Group "B")															
1	2	GE2122	HS	Functional English-I	A	3	0	0	3	0					
OR															
2	2	GE2123	HS	Functional English-V	A	3	0	0	3	0					

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B.E. SCHEME OF EXAMINATION 2018

Civil Engineering

SN	Sem	Sub Code	Type	Subject	T/P	Contact Hours				Credits	% Weightage			ESE Duration Hours
						L	T	P	Hrs		MSEs*	TA	ESE	
TOTAL FIRST & SECOND SEM										47				
Third Semester														
1	3	GE2201	BS	Engineering Mathematics III	T	3	0	0	3	3	30	10	60	3
2	3	CV2201	PC	Strength of Materials	T	3	0	0	3	3	30	10	60	3
3	3	CV2202	PC	Lab:- Strength of Materials	P	0	0	2	2	1		40	60	
4	3	CV2203	PC	Geotechnical Engineering	T	3	0	0	3	3	30	10	60	3
5	3	CV2204	PC	Lab:- Geotechnical Engineering	P	0	0	2	2	1		40	60	
6	3	CV2205	PC	Fluid Mechanics	T	3	0	0	3	3	30	10	60	3
7	3	CV2206	PC	Lab:- Fluid Mechanics	P	0	0	2	2	1		40	60	
8	3	CV2207	PC	Water Supply Engineering	T	3	0	0	3	3	30	10	60	3
9	3	CV2208	PC	Lab:- Water Supply Engineering	P	0	0	2	2	1		40	60	
TOTAL THIRD SEM						15	0	8	23	19				
Fourth Semester														
1	4	GE2204	BS	Advance Mathematical Techniques	T	3	0	0	3	3	30	10	60	3
2	4	CV2251	PC	Concrete Technology	T	3	0	0	3	3	30	10	60	3
3	4	CV2252	PC	Lab:- Concrete Technology	P	0	0	2	2	1		40	60	
4	4	CV2253	PC	Surveying	T	3	0	0	3	3	30	10	60	3
5	4	CV2254	PC	Lab:- Surveying	P	0	0	2	2	1		40	60	
6	4	CV2255	PC	Structural Analysis	T	4	0	0	4	4	30	10	60	3
7	4	CV2256	PC	Lab:- Structural Analysis	P	0	0	2	2	1		40	60	
8	4	CV2257	PC	Transportation Engineering	T	3	0	0	3	3	30	10	60	3
9	4	CV2258	PC	Lab:- Transportation Engineering	P	0	0	2	2	1		40	60	
TOTAL FOURTH SEM						16	0	8	24	20				

List of Audit Courses														
1	4	GE2121	HS	Env Studies for 4 Sem. CV,ME,EE,IT	A	3	0	0	3	0				

*** MSEs = 3 MSEs of 15 Marks each will be conducted and marks of better 2 of these 3 MSEs will be considered for Continuous Assessment**

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B.E. SCHEME OF EXAMINATION 2018
Mechanical Engineering

SN	Sem	Sub Code	Type	Subject	T/P	Contact Hours				Credits	% Weightage			ESE Duration Hours
						L	T	P	Hrs		MSEs*	TA	ESE	
TOTAL FIRST & SECOND SEM										47				

Third Semester														
1	3	GE2201	BS	Engineering Mathematics III	T	3	0	0	3	3	30	10	60	3
2	3	ME2201	PC	Material Science & Metallurgy	T	3	0	0	3	3	30	10	60	3
3	3	ME2202	PC	Lab:- Material Science & Metallurgy	P	0	0	2	2	1		40	60	
4	3	ME2203	PC	Machining Processes	T	3	0	0	3	3	30	10	60	3
5	3	ME2204	PC	Lab:- Machining Processes	P	0	0	2	2	1		40	60	
6	3	ME2205	PC	Mechanics of Material	T	4	0	0	4	4	30	10	60	3
7	3	ME2206	PC	Lab:- Mechanics of Material	P	0	0	2	2	1				
8	3	ME2207	PC	Kinematics of Machines	T	3	0	0	3	3	30	10	60	3
9	3	ME2208	PC	Fluid Mechanics	T	4	0	0	4	4	30	10	60	3
10	3	ME2209	PC	Lab:- Fluid Mechanics	P	0	0	2	2	1		40	60	
TOTAL THIRD SEM						20	0	8	28	24				

Fourth Semester														
1	4	GE2204	BS	Advance Mathematical Techniques	T	3	0	0	3	3	30	10	60	3
2	4	ME2251	PC	Design of Machine Elements	T	3	0	0	3	3	30	10	60	3
3	4	ME2252	PC	Engineering Thermodynamics	T	3	0	0	3	3	30	10	60	3
4	4	ME2253	PC	Lab:- Machine Drawing	P	0	0	2	2	1		40	60	
5	4	ME2254	PC	Manufacturing Processes	T	3	0	0	3	3	30	10	60	3
6	4	ME2255	PC	Lab:- Manufacturing Processes	P	0	0	2	2	1		40	60	
7	4	ME2256	PC	Mechanical measurement & Metrology	T	4	0	0	4	4	30	10	60	3
8	4	ME2257	PC	Lab:- Mechanical measurement & Metrology	P	0	0	2	2	1		40	60	
TOTAL FOURTH SEM						16	0	6	22	19				

List of Audit Courses														
1	4	GE2121	HS	Env Studies for 4 Sem. CV,ME,EE,IT	A	3	0	0	3	0				

* MSEs = 3 MSEs of 15 Marks each will conducted and marks of better 2 of these 3 MSEs will be considered for Continuous Assessment

<i>Bharmi</i>	<i>Anil Bapat</i>	June 2019	1.01	Applicable for AY 2019-20 Onwards
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B.E. SCHEME OF EXAMINATION 2018
Electrical Engineering

SN	Sem	Sub Code	Type	Subject	T/P	Contact Hours				Credits	% Weightage			ESE Duration Hours
						L	T	P	Hrs		MSEs*	TA	ESE	
TOTAL FIRST & SECOND SEM										47				
Third Semester														
1	3	GE2201	BS	Engineering Mathematics III	T	3	0	0	3	3	30	10	60	3 Hours
2	3	EL2201	PC	Analog Electronics	T	3	0	0	3	3	30	10	60	3 Hours
3	3	EL2202	PC	Lab. : Electronics Engineering Workshop	P	0	0	2	2	1		40	60	
4	3	EL2203	PC	Electrical Machines	T	4	0	0	4	4	30	10	60	3 Hours
5	3	EL2204	PC	Lab.:Electrical Machines	P	0	0	2	2	1		40	60	
6	3	EL2205	PC	Network Analysis	T	3		0	3	3	30	10	60	3 Hours
7	3	EL2206	PC	Lab.:Computer Programming	P	0	0	2	2	1		40	60	3 Hours
8	3	EL2207	PC	Electrical Measurement & Instrumentation	T	3	0	0	3	3	30	10	60	3 Hours
9	3	EL2208	PC	Lab.:Electrical Measurement & Instrumentation	P	0	0	2	2	1		40	60	
TOTAL THIRD SEM						16	0	8	24	20				0

Fourth Semester														
1	4	GE2204	BS	Advance Mathematical Techniques	T	3	0	0	3	3	30	10	60	3 Hours
2	4	EL2251	PC	Electrical Machines in Power System	T	3	0	0	3	3	30	10	60	3 Hours
3	4	EL2252	PC	Lab.:Electrical Machines in Power System	P	0	0	2	2	1		40	60	
4	4	EL2253	PC	Electrical Energy Generation System	T	3	0	0	3	3	30	10	60	3 Hours
5	4	EL2254	PC	Lab.:Renewable Energy System	P	0	0	2	2	1	30	10	60	3 Hours
6	4	EL2255	PC	Electric & Magnetic Fields	T	3	0	0	3	3		40	60	
7	4	EL2256	PC	Lab.:Electrical Engineering Workshop	P	0	0	2	2	1	30	10	60	3 Hours
8	4	EL2257	PC	Microprocessor	T	3	0	0	3	3		40	60	
9	4	EL2258	PC	Lab.:Microprocessor	P	0	0	2	2	1	30	10	60	3 Hours
10	4	EL2259	PC	Signals & Systems	T	4	0	0	4	4		40	60	
TOTAL FOURTH SEM						19	0	8	27	23				0

List of Audit Courses														
1	3	GE2121	HS	Env Studies for 3 Sem. EL,ET,CT	A	3	0	0	3	0				

* MSEs = 3 MSEs of 15 Marks each will conducted and marks of better 2 of these 3 MSEs will be considered for Continuous Assessment

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B.E. SCHEME OF EXAMINATION 2018

Electronics Engineering

SN	Sem	Type	Sub Code	Subject	T/P	Contact Hours				Credits	% Weightage			ESE Duration Hours
						L	T	P	Hrs		MSEs*	TA	ESE	
TOTAL FIRST +SECOND SEM										47				
Third Semester														
1	3	BS	GE2201	Engineering Mathematics III	T	3	0	0	3	3	30	10	60	3 Hours
2	3	PC	EE2201	Electronic Devices	T	3	1	0	4	4	30	10	60	3 Hours
3	3	PC	EE2202	Lab:Electronic Devices	P	0	0	2	2	1		40	60	
4	3	PC	EE2203	Signal and Systems	T	3	0	0	3	3	30	10	60	3 Hours
5	3	PC	EE2204	Lab:Programming Language	P	0	0	2	2	1		40	60	
6	3	PC	EE2205	Digital Logic Design	T	3	0	0	3	3	30	10	60	3 Hours
7	3	PC	EE2206	Lab: Digital Logic Design	P	0	0	2	2	1		40	60	
8	3	PC	EE2207	Network Analysis	T	3	0	0	3	3	30	10	60	3 Hours
9	3	PC	EE2208	Lab:Network Analysis	P	0	0	2	2	1		40	60	
TOTAL THIRD SEM						15	1	8	24	20				
Fourth Semester														
1	4	BS	GE2204	Advance Mathematical Techniques	T	3	0	0	3	3	30	10	60	3 Hours
2	4	PC	EE2251	Electronic Circuits	T	3	0	0	3	3	30	10	60	3 Hours
3	4	PC	EE2252	Lab:Electronic Circuits	P	0	0	2	2	1		40	60	
4	4	PC	EE2253	Microprocessor & Microcontroller Interfacing	T	3	0	0	3	3	30	10	60	3 Hours
5	4	PC	EE2254	Lab:Microcontroller& Interfacing	P	0	0	2	2	1		40	60	
6	4	PC	EE2255	Analog Communication	T	3	0	0	3	3	30	10	60	3 Hours
7	4	PC	EE2256	Lab.: Analog Communication	P	0	0	2	2	1		40	60	
8	4	PC	EE2257	Electromagnetic Fields	T	3	1	0	4	4	30	10	60	3 Hours
9	4	PC	EE2258	Lab: Simulation Lab/Workshp Lab	P	0	0	2	2	1		40	60	
TOTAL FOURTH SEM						15	1	8	24	20				

MSEs* = Three MSEs of 15 Marks each will conducted and marks of better 2 of these 3 MSEs will be considered for Continuous Assessment

List of Audit Courses														
1	4	HS	GE2121	Env Studies for 4 Sem. CV,ME,EE,IT	A	3	0	0	3	0				

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B.E. SCHEME OF EXAMINATION 2018
Electronics & Telecommunication Engineering

SN	Sem	Type	Sub Code	Subject	T/P	Contact Hours				Credits	% Weightage			ESE Duration Hours
						L	T	P	Hrs		MSEs*	TA	ESE	
TOTAL FIRST & SECOND SEM										47				
Third Semester														
1	3	BS	GE2201	Engineering Mathematics III	T	3	0	0	3	3	30	10	60	3 Hours
2	3	PC	ET2201	Electronic Devices and Circuits	T	3	1	0	4	4	30	10	60	3 Hours
3	3	PC	ET2202	Lab: Electronic Devices and Circuits	P	0	0	2	2	1		40	60	
4	3	PC	ET2203	Digital Circuit and Fundamentals of Microprocessor.	T	3	0	0	3	3	30	10	60	3 Hours
5	3	PC	ET2204	Lab: Digital Circuit and Fundamentals of Microprocessor.	P	0	0	2	2	1		40	60	
6	3	PC	ET2205	Electronic Measurement and Instrumentation	T	3	0	0	3	3	30	10	60	3 Hours
7	3	PC	ET2206	Lab: Electronic Measurement and Instrumentation	P	0	0	2	2	1		40	60	3 Hours
8	3	PC	ET2207	Network Analysis	T	3	0	0	3	3	30	10	60	3 Hours
TOTAL THIRD SEM						15	1	6	22	19				
Fourth Semester														
1	4	BS	GE2204	Advance Mathematical Techniques	T	3	0	0	3	3	30	10	60	3 Hours
2	4	PC	ET2251	Electromagnetic Fields	T	3	1	0	4	4	30	10	60	3 Hours
3	4	PC	ET2252	Microcontroller and Interfacing	T	3	0	0	3	3	30	10	60	3 Hours
4	4	PC	ET2253	Lab: Microcontroller and Interfacing	P	0	0	2	2	1		40	60	3 Hours
5	4	PC	ET2254	Analog Communication	T	3	0	0	3	3	30	10	60	
6	4	PC	ET2255	Lab: Analog Communication	P	0	0	2	2	1		40	60	3 Hours
7	4	PC	ET2256	Control Systems	T	3	0	0	3	3	30	10	60	
8	4	PC	ET2257	Lab.: Control Systems	P	0	0	2	2	1		40	60	3 Hours
TOTAL FOURTH SEM						15	1	6	22	19				

List of Audit Courses

1	3	HS	GE2121	Env Studies for 3 Sem. EL,ET,CT	A	3	0	0	3	0				
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* MSEs = 3 MSEs of 15 Marks each will conducted and marks of better 2 of these 3 MSEs will be considered for Continuous Assessment

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B.E. SCHEME OF EXAMINATION 2018
Computer Technology

SN	Sem	Sub Code	Type	Subject	T/P	Contact Hours				Credits	% Weightage			ESE Duration Hours
						L	T	P	Hrs		MSEs*	TA	ESE	
TOTAL FIRST & SECOND SEM										47				
Third Semester														
1	3	GE2201	BS	Engineering Mathematics III	T	3	0	0	3	3	30	10	60	3 Hours
2	3	CT2201	PC	Computer Architecture & Organisation	T	4	0	0	4	4	30	10	60	3 Hours
3	3	CT2202	PC	Object Oriented Programming	T	3	0	0	3	3	30	10	60	3 Hours
4	3	CT2203	PC	Lab: Object Oriented Programming	P	0	0	2	2	1		40	60	
5	3	CT2204	PC	Data Structures	T	4	0	0	4	4	30	10	60	3 Hours
6	3	CT2205	PC	Lab: Data Structures	P	0	0	2	2	1		40	60	
7	3	CT2206	PC	Lab: Python Programming	P	0	0	2	2	1		40	60	
8	3	CT2207	PC	Lab: Web Technology	P	0	0	2	2	1		40	60	
TOTAL THIRD SEM						14	0	8	22	18				
Fourth Semester														
1	4	GE2206	BS	Discrete Mathematics & Probability	T	3	0	0	3	3	30	10	60	3 Hours
2	4	CT2251	PC	Operating Systems	T	3	0	0	3	3	30	10	60	3 Hours
3	4	CT2252	PC	Lab: Operating Systems	P	0	0	2	2	1		40	60	
4	4	CT2253	PC	Advance Data Structures	T	4	0	0	4	4	30	10	60	3 Hours
5	4	CT2254	PC	Lab: Advance Data Structures	P	0	0	2	2	1		40	60	
6	4	CT2255	PC	Mathematical Foundations for Data Analysis	T	3	0	0	3	3	30	10	60	3 Hours
7	4	CT2256	PC	Lab: Mathematical Foundations for Data Analysis	P	0	0	2	2	1		40	60	
8	4	CT2257	PC	Database Management Systems	T	3	0	0	3	3	30	10	60	3 Hours
9	4	CT2258	PC	Lab: Database Management Systems	P	0	0	2	2	1		40	60	
TOTAL FOURTH SEM						16	0	8	24	20				

List of Audit Courses														
1	3	GE2121	HS	Env Studies for 3 Sem. EL,ET,CT	A	3	0	0	3	0				

MSEs* = Three MSEs of 15 Marks each will conducted and marks of better 2 of these 3 MSEs will be considered for Continuous Assessment

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B.E. SCHEME OF EXAMINATION 2018
Information Technology

SN	Sem	Type	Sub Code	Subject	T/P	Contact Hours				Credits	% Weightage			ESE Duration Hours
						L	T	P	Hrs		MSEs*	TA	ESE	
TOTAL FIRST & SECOND SEM										47				

Third Semester														
1	3	BS	GE2201	Engineering Mathematics III	T	3	0	0	3	3	30	10	60	3
2	3	PC	IT2201	Digital Circuits & Microprocessors	T	3	0	0	3	3	30	10	60	3
3	3	PC	IT2202	Digital Circuits & Microprocessors Lab	P	0	0	2	2	1		40	60	
4	3	PC	IT2203	Object Oriented Programming	T	3	0	0	3	3	30	10	60	3
5	3	PC	IT2204	Object Oriented Programming Lab	P	0	0	2	2	1		40	60	
6	3	PC	IT2205	Data Structures and Program Design-I	T	4	0	0	4	4	30	10	60	3
7	3	PC	IT2206	Data Structures and Program Design-I Lab	P	0	0	2	2	1		40	60	
8	3	PC	IT2207	Computer Architecture & Organization	T	3	0	0	3	3	30	10	60	3
9	3	PC	IT2208	Software Lab	P	0	0	2	2	1		40	60	
TOTAL THIRD SEM						16	0	8	24	20				

Fourth Semester														
1	4	BS	GE2206	Engineering Mathematics IV	T	3	0	0	3	3	30	10	60	3
2	4	PC	IT2251	Data Structures and Program Design-II	T	3	0	0	3	3	30	10	60	3
3	4	PC	IT2252	Data Structures and Program Design-II Lab	P	0	0	2	2	1		40	60	
4	4	PC	IT2253	Computer Networks	T	4	0	0	4	4	30	10	60	3
5	4	PC	IT2254	Computer Networks Lab	P	0	0	2	2	1		40	60	
6	4	PC	IT2255	Operating Systems	T	3	0	0	3	3	30	10	60	3
7	4	PC	IT2256	Operating Systems Lab	P	0	0	2	2	1		40	60	
8	4	PC	IT2257	Theory of Computation	T	3	0	0	3	3		40	60	
TOTAL FOURTH SEM						16	0	6	22	19				

List of Audit Courses														
1	4	GE2121	HS	Env Studies for 4 Sem. CV,ME,EE,IT	A	3	0	0	3	0				

* MSEs = 3 MSEs of 15 Marks each will conducted and marks of better 2 of these 3 MSEs will be considered for Continuous Assessment

		June 2019	1.01	Applicable for AY 2019-20 Onwards
Chairperson	Dean (Acad. Matters)	Date of Release	Version	