NOTIFICATION

No. 42 /2017 Date : 15 /06/2017

Subject :- Continuation of Prospectus No. 121741 prescribed for Sem. III & IV B.E. (CGS) for the session 2017-2018.

It is notified for general information of all concerned that the Prospectus No. **121741** prescribed for Semester **III & IV B.E. (CGS)** for the session 2011-2012 and continued upto the session 2016-2017 shall be continued for the academic session 2017-2018 as per **Appendix – A** appended herewith as given below:-.

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Appendix – A

3ET1 Mathematics - III [B.E. (Electronics & Telecommunication)]

Course Requisite:

1. (IA1) Engineering Mathematics-I
2. (IB1) Engineering Mathematics-II

Course Objectives:

1. Introduction to geometry of curves, two and three-dimensional regions and calculus of vector-valued functions.
2. To deal with system of differential and difference equations in the study of electrical/electronic and mechanical systems.
3. To equip students with necessary knowledge and skills to enable them to handle mathematical operations, analysis and problems involving complex numbers.
4. Understand the computational details behind certain numerical methods and their convergence.
5. Understand Laplace and Fourier transform.

Course Outcomes:

After successfully completing the course, the students will be able to

1. Solve contour integration as applied to analog systems.
2. Comprehend knowledge of complex analysis in terms of complex variables, harmonic functions and conformal mapping.
3. Apply numerical methods to obtain approximate solutions to mathematical problems.
4. Demonstrate the knowledge of differential equations to solve engineering problems of analog systems.
5. Identify and solve certain forms of partial difference equations as applied to discrete systems.
6. Apply Laplace transform to solve differential equations.

Unit-1	**Vector Calculus:** - Scalar and Vector point functions, Differentiation of vectors, Curves in space, Gradient of a scalar point function, Directional derivatives, Divergence and curl of a vector point function and their physical meaning, expansion formulae (without proof), irrotational and solenoidal vector fields. **Fourier transforms:** Fourier sine and Fourier cosine transforms and integrals	10
Unit-2	**Complex Analysis:** - Functions of complex variables, Analytic function, Cauchy-Reimann conditions, Harmonic function, Harmonic conjugate functions, Milne's method. **Conformal Mappings**: Translation, Rotation, Magnification, Inversion and Bilinear Transformation, singular points, expansion of function in Taylor's and Laurent's series, Cauchy's integral theorem and formula, Residue theorem.	08
Unit-3	**Numerical Methods:** **Solution of Nonlinear and Polynomial Equations**: False Position, Newton Raphson Method. **Solution of Linear Systems Equations:** Gauss Elimination method, Gauss Seidel Iterative Method, Relaxation method **Solution of Differential Equations:** Euler's method, Runge-Kutta method, Picards method.	08

Unit-4	**Ordinary Differential Equations**: - Complete solution, Operator D, Rules for finding complementary function, the inverse operator, Rules for finding the particular integral, Method of variations of parameters, Cauchy's and Legendre's linear differential equations.	10
Unit-5	a) **Difference Equation:-** solution of difference equations of first order, solution of difference equations of higher order with constant coefficient. b) **Partial differential equation of first order of following form-** (i) f (p, q) = 0; (ii) f (p, q, z)=0; (iii) f(x, p) = g (y, q); (iv) Pp + Qq =R (Lagrange's Form); (v) Z=px+qy+f(p, q) (Clairaut form)	08
Unit-6	**Laplace transforms**: definition, standard forms, properties of Laplace transform, inverse Laplace transform, Laplace transform of some basic functions, initial and final value theorem, convolution theorem, Solution of linear differential equations using Laplace transform.	08
	Total	52

Text Books :

1. Elements of Applied Mathematics by P. N. Wartikar and J. N. Wartikar. Poona Vidhyarthi Publisher
2. Higher Engineering Mathematics by B.S.Grewal. Khanna Publishers
   Introduction to method of Numerical Analysis- S. S. Shastry, Second Edition, PHI Pvt. Ltd.,New Delhi.

References :

1. A Mathematical Companion for Science and Engineering Students – Brettenbach, Oxford University Press, 2008.
2. Advancing Engg. Mathematics, E.K.Kreyzig, John Wiley.
3. Numerical Method for Mathematics Science and Engineering, John H. Mathew, PHI.
4. Numerical Methods - Principles, Analysis & Algorithms Pal, Oxford University Press, 2008.
5. Numerical Methods for Engineers and Scientists – Guha, Oxford University Press 2008.

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NOTIFICATION

No. 43 /2017 Date : 15 /06/2017

Subject :- Chances for the old Course failure students of B.E. Sem. III (Electronics & Telecommunication) .

It is notified for general information of all concerned that the authorites of the University have accepted to provide two (2) chances i.e. Winter- 2017 & Summer- 2018 to the Old Course failure students of the subject Maths – III of B.E. Sem. III (Electronics & elecommunication) and thereafter from Winter–2018 examination the students will have to appear as per the reviesd syllabus of Maths-III.

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(Dr.A.P.Deshmukh)
Registrar
Sant Gadge Baba Amravati University

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NOTIFICATION

No. 44 /2017 Date :- 15 /06/2017

Subject :-Schemes of Equivalence & Absorption in the Faculty of Engineering & Technology.

It is notified for general information of all concerned that the authorities of the University have accepted the Schemes of Equivalence & Absorption for the Old Course students in the Faculty of Engineering & Technology of B.E. Sem. I to VIII (Civil) (C.G.S.), M.E. Civil (Structural Engg.) Sem. I & II and B.E. (Electrical & Electronics) Sem. I and M.E.Electrical (Electronics & Power) (C.G.S.) to be implemented from the academic session 2016-2017 in phase wise manner as given under :

(A) Civil Engineering (Incl. C.T.)

(i) [B.E. (Civil) Sem. I to VIII] (C.G.S.) (w.e.f. Winter-2016 exams.)

Sr No	Old Course Subj. Code	Old Course Subject	Equivalent New Code	Equivalent new Subj. (CGS)	Chances to be given, if any
1	IA3	**Semester – I (w.e.f. W/16)** Engineernig Mechanics	IA3	Engineernig Mechanics	------
2	3CE02	**Semester – III (w.e.f. W/17)** Strength of Materials	3CE02	Strength of Materials	------
3	3CE03	Transportation Engg. - I	3CE03	Transportation Engg. - I	------
4	3CE04	Building Constn. & Materials	3CE04	Building Constn. & Materials	------
4	3CE05	Engineering Geology	3CE05	Engineering Geology	------
5	4CE01	**Semester – IV (w.e.f. S/18)** Geotechnical Engg. - I	4CE01	Geotechnical Engg. - I	------
6	4CE02	Fluid Mechanics - I	4CE02	Fluid Mechanics - I	------
7	4CE03	Theory of Structures - I	4CE03	Theory of Structures - I	------
8	4CE04	Surveying - I	4CE04	Surveying - I	------
9	4CE05	Reinforced Cement Concrete - I	------	------	Chances be given upto Winter-2019 & thereafter be absorbed in new subj. 4CE05 R.C.C.-I
10	5CE01	**Semester – V (w.e.f. W/18)** Reinforced Cement Concrete - II	------	------	Chances be given upto Summer- 2020 & thereafter be absorbed in new subj 5CE01 R.C.C.- II
11	5CE02	Fluid Mechanics - II	5CE02	Fluid Mechanics – II	------
12	5CE03	Building Planning & CAD	5CE03	Building Planning & CAD	------
13	5CE04	Surveying – II	5CE04	Surveying – II	------
14	5CE05	**Free Elective – I** i)Introdn. to Earthquake Engg. ii)Basics of Bldg.Construction iii)Watershed Management	5CE05	**Free Elective – I** i)Introdn. to Earthqu.Engg. ii)Basics of Bldg. Constrn. iii)Watershed Management	------
15	6CE01	**Semester – VI (w.e.f. S/19)** Numerical Methods & Computer Programming	------	------	Chances be given upto Winter -2020 & thereafter be absorbed in new subj. 6CE0I N.M.C.P.
17	6CE02	Structural Design – I	------	------	Chances be given upto Winter- 2020 & thereafter be absorbed in new subj. 7CE03 Design of Steel Struc.
18	6CE03	Water Resources Engg. – I	6CE03	Water Resources Engg. – I	_____
19	6CE04	Transportation Engg.- II	6CE04	Transportation Engg.- II	------
20	6CE05	**Free Elective – II** i)Disaster Management ii)Environmentle Management	6CE05	**Free Elective – II** i)Disaster Management ii)Environment Management	------
21	7CE01	**Semester – VII (w.e.f. W/19)** Theory of Structures – II	7CE01	Theory of Structures – II	------
22	7CE02	Geotechnical Engg. – II	7CE02	Geotechnical Engg. – II	------
23	7CE03	Structural Design – II	------	------	Chances be given upto Winter- 2019 & thereafter be absorbed in new subj. 8CE02 Design of RCC and Prestressed Concrete Struct.
24	7CE04	Environmental Engg. – I	7CE04	Environmental Engg. – I	_____

25	7CE05	**Professional Elect. – I** i)Adv.Water Treatment ii)Adv.Geotech. Engg. iii)Water Power Engg. iv)Prestressed Concretre v)Artificial Neu.N/w &Fuzzy Logic vi)Adv.Concrete Technology vii)Env.Pollution & Rural Sanitation viii)Adv.Earthquake Engg.	7CE05	**Professional Elect. – I** i)Adv.Water Treatment ii)Adv.Geotech. Engg. iii)Water Power Engg. iv)Prestressed Concretre v)Artificial Neu.N/w &Fuzzy Logic vi)Adv.Concrete Technology vii)Env.Pollution & Rural Sanitation viii)Adv.Earthquake Engg.	------
27	8CE01	**Semester –VIII (w.e.f. S/20)** Water Resources Engg.– II	8CE01	Water Resources Engg.– II	------
28	8CE02	Environmental Engg. – II	8CE02	Environmental Engg. – II	------
29	8CE03	Project Planning & Mgmt.	8CE03	Project Planning & Mgmt.	------
30	8CE04	**Professional Elect. – II** i)Adv.Design of Steel Struc. ii)Adv.Waste Water & Ind.Waste Treatment iii)Finite Element Method iv)Dam Engineering v)Adv.Engineering Geology vi)Matrix Comp.Anal.of Struc. vii)Adv.Structural Analysis viii)Rock Mechanics ix)Adv.Design of R.C.C.Struc.	8CE04	**Professional Elect. – II** i)Adv.Design of Steel Struc. ii)Adv.Waste Water & Ind.Waste Treatment iii)Finite Element Method iv)Dam Engineering v)Adv.Engineering Geology vi)Matrix Comp.Anal.of Struc. viii)Rock Mechanics ix)Adv.Design of R.C.C. Struc.	All the Elective Subjs. are given equivalence with the old course subjects, except of **Sr. Nos. i) Adv. Design of Steel Structures and Sr.No. vii) Adv. Structural Analysis.** The chances for the above subjects are as under : **i) Adv. Design of Steel Structures** Chances be given upto Summer-2024 & thereafter be absorbed in new syllabus of the same. **vii)Adv. Structurl Analysis** **As** in the revised new syllabi, this subj. has been taken out, hence, for the failure students, the chances be given till passes .

(ii) M.E. Civil (Structural Engg.) (C.G.S.) Sem. I & II (C.G.S.)

Sr No.	Old Course Sub.Code	Old Course Subject	Equivalent New Code (C.G.S.)	Equivalent new Subject (CGS)	Chances to be given, if any
1	1SFSE1	**Semester – I (w.e.f. W/16)** Introduction to Earthquakes & Retrofitting of Structures		Introduction to Earthquakes & Retrofitting of Structures	------
2	1SFSE2	Theory of Elasticity & Elastic Stability	1SFSE2	Theory of Elasticity & Elastic Stability	------
3	1SFSE3	Matrix Methods of Structural Analysis	1SFSE3	Matrix Methods of Structural Analysis	------
4	1SFSE4	Structual Dynamics	1SFSE4	Structual Dynamics	------
5	1SFSE5	Earthquake Resistant Design of R.C.C.	1SFSE5	Earthquake Resistant Design of R.C.C.	------
6	2SFSE1	**Semester – II (w.e.f. S/17)** Finite Element Methods	2SFSE1	Finite Element Methods	------
7	2SFSE2	Advanced Design of Steel Structures	2SFSE2	Advanced Design of Steel Structures	------
8	2SFSE3	Theory of Plates & Shells	2SFSE3	Theory of Plates & Shells	_____

9	2SFSE4	Design of Prestresed Concrete Structures	2SFSE4	Design of Prestresed Concrete Structures	------
10	2SFSE5	**Elective :** **i**)Substructures & Foundation Design ii)Earthquake Resistant Design of Bridges & Dams iii)Experimental Stress Analysis iv)Design of Environmental Struetures	2SFSE5	**Elective :** **i**)Substructures & Foundation Design ii)Earthquake Resistant Design of Bridges & Dams iii)Experimental Stress Analysis iv)Design of Environmental Struetures	------

(B) Electrical Engineering (Incl. E.P.S.)

(i) (B.E. (Electrical & Electronics) Sem. I (C.G.S.)

Sr. No.	**Old Course S.Code**	**Old Course Subject**	**Equivalen New Code (C.G.S.)**		**Chances to be given, if any**
1	1B4	**Sem.- I/II (Gp.B)(w.e.f. W/16)** Electrical Engineering	1B4	Electrical Engineering	------

ii) [M.E. Electrical (Electronics & Power) Sem. I & II (CGS)]

Sr. No.	**Old Course Subj. Code**	**Old Course Subject**	**Equivalent New Code (C.G.S.)**	**Equivalent new Subject (CGS) / additional chances given, if any**
1	1SEPS1	**Semester – I (w.e.f. W/16)** Power System Optimization	--------	Two (2) Chances i.e. Winter-2016 & Summer-2017shall be given for all the old course subjects of **M.E.Sem. – I**.
2	1SEPS2	Generation Planning & Load Desp.	--------	---------"----------
3	1SEPS3	Microprocessor & Microcontroller	--------	---------"----------
4	1SEPS4	Power System Dynamics	--------	---------"----------
5	1SEPS5	Digital Signal Processing	--------	---------"----------
6	2SEPS1	**Semester – II (w.e.f. S/17)** Advanced Power System Protecn.	--------	Three (3) Chances i.e. Winter-2016, Summer-2017 & Winter-2017shall be given for all the old course subjects of **M.E. Sem. – II** .
7	2SEPS2	High Voltage Transmission	--------	---------"----------
8	2SEPS3	Power Syst. Modelling & Control	--------	---------"----------
9	2SEPS4	Comp.Methods in Power System Analysis	--------	---------"----------
10	2SEPS5	FACTS & Power Quality	--------	---------"----------

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NOTIFICATION

No. 45 /2017 Date : 15 /06/2017

Subject : Equivalence & Absorption Schemes/Chances for the failure students in the Faculty of Engineering & Technology for the academic session 2017-2018.

It is notified for general information of all concerned that the authorities of the University have accepted the Equivalence & Absorption Schemes for the Old Course failure students of Semester III to VIII of B.E. (Electronics & Telecommunications) (C.G.S.) in the Faculty of Engineering & Technology to be implemented from Winter-2017 examinations and onwards in phase wise manner as per given below in the table.

Schemes of Equivalence & Absorption / Chances for the Old Course failure students –

[B.E. Sem. III to VIII (Electronics & Telecomunication)]

TABLE

Sr No	Old Course S. Code	Old Course Subject (CGS)	Equi.New Sub.Code	Equivalent New Subject (CGS)	Chances to be given for the failure students
1	2	3	4	5	6
1	3XT2	**(w.e.f. W-2017 Examination) Semester – III** Computer Programming & Applications	3ET2	Object Oriented Programming	-----
2	3XT3	Electromagnetic Fields	3ET5	Electromagnetic Fields	-----
3	3XT4	Electric Drives & Measurements	-----	-----	As equivalencey can't be given, chances be given till passes
4	3XT5	Electronic Devices & Components	-----	-----	Chances be given upto Summer-2019 & from Winter-2019 shall have to appear in 3ET3 Electronic Devices & Comp.
5	4XT1	**(w.e.f. S-2018 Examination) Semester - IV** Communication Engg. - I		-----	Chances be given upto Winter-2019 & from Summer-2020 shall have to appear in 5ET4 Communication Engg.- II
6	4XT2	Electronics Devices & Circuits – I	3ET3	Electronics Devices & Circuits	-----
7	4XT3	Network Analysis	4ET2	Network Analysis	-----
8	4XT4	Industrial Mgmt. & Quality Control	7ET4	Industrial Mgmt. & Quality Control	-----
9	4XT5	Instrumentation	3ET4	Instrumentation & Sensors	-----
10	5XT1	**(w.e.f. W-2018 Examination) Semester - V** Electronics Devices & Circuits – II	5ET4	------	Chances be given upto S-2020, & from Winter-2020 shall have to appear in 4ET4 Dig.Electronics
11	5XT2	Power Electronics	5ET2	Power Electronics & Drives	-----
12	5XT3	Control Systems Engineering	6ET2	Control Systems Emgg.	-----
13	5XT4	Communication Engg. - II	4ET5	Communication Engg. - I	-----
14	5FEXT5	**Free Elect – I** i)Consumer Electronics ii)Fibre Optics	6ET5 (i) 5ET5(ii)	i)Consumer Electronics ii)Satellite & Opt.Fibre Communication	-----
15	5XT6	Communication skills	6ET6	Communication skills	-----
16	6XT1	**(w.e.f. S-2019 Examination) Semester - VI** Digital Itegrated Circuits	4ET4	Digital Electronics	-----
17	6XT2	Linear Integrated Circutis	4ET3	Analog Electronics - I	-----
18	6XT3	Introduction to Microprocessor	---	-----	Chances be given upto Winter-2020, & from Summer-2021 shall have to appear in 5ET3 Microproc. & Microcontroller

19	6XT4	Digital Communication	6ET3	Digital Communication	
20	6FEXT5	**Free Elect – II** i)Itroduction to Wireless Technology ii)Electronic Test Instruments – Analog & Digital	6FET5 (ii) 5FEET5 (i)	i)Itroduction to Wireless Technology ii)Electronic Test Instruments	-----
21	7XT1	**(w.e.f. W-2019 Examination)** **Semester - VII** Data Communication Network	8ET3	Data Communication Network	-----
22	7XT2	Microcontroller & Applns.	----	-----	Chances be given upto Summer-2021, & from Winter-2021 shall have to appear in 5ET3 Microproc. & Microcontroller
23	7XT3	Digital Signal Processing	6ET4	Digital Signal Processing	-----
24	7XT4	**Prof. Elect – I** i)VLSI Design ii)Computer Organization iii)Artificial Intelligence iv)Satellite & O.F.C. v)Audio & Video Engineering	i) ----- ii)7ET5(i) iii) 7ET5(iv) iv)7ET3 v)----	i) ------ ii)Comp.Organization iii)Fuzzy Logic &Art. Neural Networks iv) Satellite & O.F.C. v)------	i) chances be given till passes ii)------- iii)----- iv) ----- v)Till passes
25	8XT1	**(w.e.f. S-2020 Examination)** **Semester - VIII** UHF & Microwaves	8ET1	UHF & Microwaves	-----
26	8XT2	Electronics Circuits Design	5ET1	Analog Electronics - II	-----
27	8XT3	Wireless Communication	8ET2	Wireless Communication	-----
28	8XT4	**Prof. Elect – II** i)Biomedical Engineering ii)Digital Image Processing iii)ARM System Development & Design iv)Embedded & Real Time Systems V)Smart Sensors	i)8ET4(iv) ii)7ET2 iii)---- iv) 8ET4(i) v)7ET5(iii)	i)Biomedical Engineering ii) Digital Image Processing iii)---- iv) Embedded Systems & RTOS v) Smart Sensors	i)--- ii)--- iii)Till passes iv)---- v)------

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अधिसूचना

क्रमांक : ४६/२०१७ दिनांक : १५/६/२०१७

विषय : २०१६-२०१७ शैक्षणिक सत्राची वीर उत्तमराव मोहिते शिष्यवृत्ती.

सर्व सामान्यांचे माहितीकरिता अधिसूचित करण्यात येते की, वीर उत्तमराव मोहिते शिष्यवृत्ती दाननिधी विनियम क्र. ३१/१९९८ मधील तरतुदीप्रमाणे, श्री वैभव श्रीकृष्ण उगले या विद्यार्थ्याने वाङमय स्नातक परीक्षा प्रथम प्रयत्नात उत्तीर्ण करुन व या अभ्यासक्रमाच्या इतिहास विषयात सर्वाधिक गुण प्राप्त करुन २०१६-२०१७ या शैक्षणिक सत्रामध्ये सीताबाई कला महाविद्यालय, अकोला येथे वाङमय पारंगत भाग-१ (इतिहास) या वर्गात प्रवेश घेतल्यामुळे, हा विद्यार्थी २०१६-२०१७ या शैक्षणिक सत्राच्या रु. २,८००/- च्या वीर उत्तमराव मोहिते शिष्यवृत्तीसाठी पात्र ठरलेला आहे.

२०१६-२०१७ या शैक्षणिक सत्रामध्ये रु. २,८००/- (अक्षरी रु. दोन हजार आठशे फक्त) ची वीर उत्तमराव मोहिते शिष्यवृत्ती श्री वैभव श्रीकृष्ण उगले यांना प्रदान करण्यात येत आहे.

स्वा/-
कुलसचिव
संत गाडगे बाबा अमरावती विद्यापीठ.

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