SANT GADGE BABA AMRAVATI UNIVERSITY GAZETTE

(3)

Official Publication of Sant Garlge Baba American University

PART - TWO

गुरूबार, दिनोक ११ डिगेंबर, २०१४ अधिसूचना

क्रमांक : १४६/२०१४

विषयः : संलिग्निकरणायायतः.

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सर्व संवंधीतांचे माहीतीकरीता अधिमृचित करण्यात येते की, खाली दर्शीयकेल्या महाविद्यालयांकरीता, अभ्यासक्रम / विषय / अतिरीक्त तुकड़ी च्या संलिकिरण यादीसंदर्भात नियुक्त करण्यात आलंक्या चीकशी सीमत्यांचे अहवाल दि.२६.०९.२०१४ व तह ्रम सभा दि. २९.०९.२०१४ रोजी झालेल्या विद्वत परिपदेने विषय क्र. ४४, ६५, ७० व ९८ अन्वये तसेच दि.१८.०४.२०१३ रोजी झालेल्या विद्वत परिपदेने विषय क्र. ४४ अन्वये मान्य केल्यानुसार स्तंभ क्र.२ मध्ये दर्शविलेल्या महाविद्यालयास, स्तंभ क्र.३ मध्ये दर्शविलेल्या अध्यासक्रम / विषय / अतिरीक्त तुकडीय, स्तंभ क्र.४ मध्ये दर्शविलेल्या कालावधीकरीता म.वि.कायदा १९९४ मधील कलम ८३, ८६ य ८७ मध्ये दर्शविलेल्या कालावधीकरीता म.वि.कायदा १९९४ मधील कलम ८३, ८६ य ८७ मध्ये दर्शीवलेल्या कार्युरीये तसेच B.Ed., M.Ed., LL.B. या अभ्यासक्रमास संवधीत शिखर संस्थाच्या (Apex Body) मान्यतेचे अधिन राहुन, विद्वत परोपदेच्या खालील निर्णयाचे अनुषंगाने संलिग्निकरण प्रदान करण्यात येत आहे.

* Council took the decision that, the colleges having less than 50% of approved teachers, such colleges will be granted continuation of affiliation till 2014-2015.

TABLE Sr. Name of the College Subject(s) / Course(s)/ Add. Period of				
Sr. No.	Name of the Conege	Section(s)	continuation of affiliation	
1.	2	3.	4.	
1.	Govt. Vidarbha Institute of Science & Humanities, Amravati.	B.A., B.Sc., B.Sc., B.Sc. (Home-Science) M.A. (Marathi, Sanskrit, English, Economics, History, Psychology, Urdu, Political Sci., Hindi, Geography, Philisiophy, Music) M.Sc. (Math, Physics, Chemistry, Botany, Zoology, Stastics, In-organic Chemistry, Home-Science) M.Phil (Marathi, English, Urdu, Economics, Geography, Physics, Chemistry, Zoology, Botany, Stastics, Math, Home-Science)	For the session 2009-2010 2010-2011 2011-2012 2012-2013 & 2013-2014	
2,	Amravati Nagar Wachanalaya, Amravati.	C.Lib.	For the session 2013-2014 & 2014-2015	
3.	Matoshri Vimalabai Deshmukh Mahavidyalaya, Panchawati Chowk, Morshi Road, Amravati	B.A. B.Sc.(Home-Science) D.B.M.	For the session 2014-2015 2015-2016 2016-2017 2017-2018 & 2018-2019	

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(2014-75)

-	47,	Rajiv Gandhi Science College, Mehakar Distt. Buldhana.	B.Sc., B.Com., B.Sc.(Home-Science) B.C.A.	For the session 2013-2014
	48,	Shahu Maharaj College of Education, Buldana	M.Ed.	For the session 2013-2014
-	49.	Rambhau Lingade Shikshan Mahavidyalays, Buldhana.	B.Ed.	For the session 2013-2014
	50.	Satyajit B. Ed. College, Mebakar. Distt. Buldhana.	B.Ed.	For the session 2013-2014 & 2014-2015
4.	51.	Shri Pundalik Maharaj College, Nandura Rly. Distt, Buldhana.	B.Sc.	For the session 2011-2012 & 2012-2013
-	52.	Abhinav College of Education, D.P. Road, Chikhali Distt, Buldhana.	B.Ed.	For the session 2013-2014 & 2014-2015
-	53.	Saraswati College, Gaulkhed, Road, Shegaon, Distt. Buldhana.	B.B.A., B.C.A.	For the session 2013-2014
41	54.	Savitribai Fule Vidyan Mahavidyalaya, Shindkhed Raja. Distt. Buldhana.	B.Sc., B.A.	For the session 2013-2014
5	5.	Mahatma Jyoriba Fule Science College,Sangrampur Tq.Sangrampur Distt. Buldhana.	B.Sc.	For the session 2013-2014
5	6.	Shinde B.Ed. College, Anjani Bu. Mehakar. Distt. Buldhana.	B.Ed.	For the session 2013-2014 & 2014-2015
57	1.	G.S. Science, Arts And Commerce College, Khamgaon, / Distt. Buldhana.	B.C.A., M.Sc.(Chemistry, Zoology, Computer Science) COP 1.Stastical Application of Various Techniques 2.Fiber optics Communications 3.Solar Energy	
58.		Chhaganrao Bhujbal Arts & Commerce College, Hiwara Ashram, Tq. Mehakar, Distt. Buldhana,	B.A.	For the session 2013-2014
59		Shivajirao Moghe Kala, Vanijya & Vidnyan Mahavidyalaya, Kelapur (Pandharkawada) Distt:-Yavatmal.	B.A., B.Com., B.Sc.	For the session 2013-2014 & 2014-2015
60	0.	Shri Govindrao Pawar Physical Education College, Kalamb. Distri-Vayatmal.	B.P.Ed., B.P.E	For the session . 2013-2014

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61.	Rajiv Vidhyan & Vanijya Mahavidyalaya, Zari, Tq. Zari, Distt:-Yavatmal.	B.Com., B.Sc.	For the session 2013-2014
62.	Phulsingh Naik Mahavidyalaya, Pusad. Distt:-Yavatmal.	B.A.(Urdu,Urdu Litt., Persian Litt.) B.Com.(Urdu) B.Sc.(Urdu)	For the session 2013-2014 &: 2014-2015
63.	Akola College of Journalism & Social Work, Akola.	B.J.M.C. M.J.M.C.	For the session 2013-2014
64.	Jai Bajrang Arts College, Channi, Dist :- Akola.	B.A.	For the session 2013-2014
65.	Shri Datt Arts College, Asegaon Pen, Tq. Risod.Distt :- Washim	B.A.	For the session 2013-2014
66,	Matoshri Nanibai Gharphalkar Science College,Babhulgaon Distt:-Yavatmal	B.Sc.	For the session 2014-2015
67.	Abasaheb Parvekar Arts, Commerce College, Yavatmal.	B.A. (Rural Handicraft) COP 1.Communication Skill in English 2. E-Commerce 3.Hotal Management 4.Library Office Automation	For the session 2013-2014
68.	Jijaoo College of Education, Yavatmal.	B.Ed.	For the session 2013-2014 & 2014-2015
69.	S.P.M. Science & Gilani Arts & Commerce Mahavidyalaya, Ghatanji Distt:-Yavatmal	M.A-I,II (History, Marathi)	For the session 2012-2013
70.	Mungsaji Maharaj Mahavidyalaya, Darwha Distt-Yavatmal	M.AI,II (Political Science) M.ComI,II	For the session 2012-2013

स्वा/-(दिनेशकुमार जोशी) कुलसचिव संत गाडगे बाबा अमरावती विद्यापीठ

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PART-TWO

Thursday,the 8th November,2012 Notification

No.: 155/2012 Dated: 8/11/2012

Subject: Syllabus For Certificate / Diploma / Advanced Diploma Course In "Fibre Optic Communication" Under The Scheme Of Career Oriented Programme.

It is notified for general information of all concerned that the authorities of University have accepted the syllabi for Certificate / Diploma / Advanced Diploma Course in "Fibre Optic Communication" along with other details under the scheme of Career Oriented Programme at first degree level shall be as given in Appendix-A, appended with this notification.

It is further notified that the eligibility criteria and other details along with the Scheme of examination shall be as provided under Ordinance No.47 of 2005, Regulation No.38 of 2005, Direction No.6/2008 and 7/2008.

Sd/-(Dineshkumar Joshi) Registrar, Sant Gadge Baba Amravati University

Appendix-A

Syllabus Prescribed for Certificate Course in "Fibre Optic Communication" under the Scheme of Career Oriented Programme

Theory paper shall be of 3 hours duration & carry 100 marks. Each Unit carry 20 marks. The practical shall be of 4 hours duration and carry 50 marks.

Theory:

Unit-I : Overview of Optical Fibre Communication :- Block diagram of optical fibre communication system. Advantages and disadvantages of optical fibre system. Applications - industry, defence,

commercial fields

Optical Fibres: Types of optical fibres, structure of optical fibres, principle of transmission of light in optical fibre, basic optical laws, refraction & Snell's law, total internal reflection, conditions for total internal reflection, light propagation through an Optical Fibre, acceptance angle, numerical aperture.

Unit-II: Classification of Optical Fibres: - Modes of propagation, step index fibre, monomode step index fibre, multimode graded index fibre, ray path inside the core, inertial and skew rays.

Fibre Fabrication :- Classification, External CVD, Internal CVD processes and their characteristics.

Fibre Cables: Types, materials used, construction, testing, role of strength material, selection criteria.

Unit-III: Electronic Components: - Construction of pn junction diode, symbol forward & reverse biased operation, VI characteristics, applications. NPN & PNP transistors – construction & working of BJT, symbols, CB, CE & CC configurations.

Power Supply : Avalanche breakdown, Zener breakdown, Zener diode operation & VI Characteristics, Rectifier & filter. Regulation – Zener regulator, Block diagram of power supply, regulated power supply, IC power supply & their functional description.

Unit-IV: Optical Display Devices: Necessity of optical displays, types of optical displays, numeric, alphanumeric displays, segmental displays – seven segment, fourteen segment, dot matrix, LCD display – dynamic scattering & field effect type, construction & working principle.
 Measuring Instrument: Multimeter, Cathode Ray Oscilloscope, Digital voltmeter, Function

generator – working principle of each with simple block diagrams & applications.

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Unit-V: Optoelectronic Devices: - LDR- Construction, operation & VI characteristics.

Optical Sources :- Construction, operation and Characteristics of LED, LET, Semiconductor laser diode.

Photodetectors: Photoemissive, photoconductive and photovoltaic devices, construction, operation and characteristic of pn junction photodiode, PIN photodiode, avalanche photodiode, phototransistor, photovoltaic cell.

Practicals: - Any 10 Experiments based on above syllabus.

Duration of Practical Marks:

One Experiment - 30 Marks
Viva - 10 marks
Practical Record - 10 marks

Total Marks - 50

Syllabus Prescribed for Diploma Course in "Fibre Optic Communication" under the Scheme of Career Oriented Programme

Theory paper shall be of 3 hours duration & carry 100 marks. Each Unit carry 20 marks. The practical shall be of 4 hours duration and carry 50 marks.

Theory:

Unit-I : Digital Techniques :- Decimal, binary number system, gates - OR, AND, NOT, NOR, NAND gates - definition, symbol, Boolean equations, truth tables, pin diagrams of each. Flip-flop - symbol & function. Counter & register - symbolic functional description.

Combinational Logic – Definition, function & operation of Encoder, Decoder, Multiplexer, Demultiplexer with symbolic diagrams.

Unit-II: LASER System: Definition, properties, laser action, laser as an amplifier of light, absorption, spontaneous & stimulated emission, population inversion, principle of 3 & 4 level laser. Applications, semiconductor laser, fibre laser.

Transmission Characteristics of Fibres: Fibre losses, attenuation, absorption, scattering, bending, dispersion, distortion, noise – brief introduction of each.

Unit-III: Optical Amplifiers: Transistor amplifier CB, CE mode action, Feedback concept.

Operational Amplifiers – symbol, functional description, Inverting – Non Inverting functions, pin diagram.

Optical Amplifiers :- Basic applications and types of Optical Amplifiers, Semiconductor laser amplifier, fibre amplifier.

Unit-IV: Optical Components :- Optical Splicers :- Splicing techniques, fusion splice method, steps involved in splicing.

Optical Fibre Connectors :- Types V groove connector system.

Optical Switches:- Brief introduction.

Optical Couplers :- Star and T Couplers, characteristic, operating modes, Applications-diode-diode coupler, diode-transistor coupler.

Unit-V: Optical Devices: Repeaters, Regenerators, Transponders, Filters, Isolators, Attenuators – functional description of each with simple diagrams.

Practicals: - Any 10 Experiments based on above syllabus.

Duration of Practical Marks:

One Experiment - 30 Marks
Viva - 10 marks
Practical Record - 10 marks

Total Marks - 50

Syllabus Prescribed for Advanced Diploma Course in "Fibre Optic Communication" under the Scheme of Career Oriented Programme

Theory paper shall be of 3 hours duration & carry 100 marks. Each Unit carry 20 marks. The practical shall be of 4 hours duration and carry 50 marks.

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Theory:

Unit-I: Electronic Communication: - Analog Communication - Modulation, need of modulation, Types of modulation, Basic ideas of AM, FM & Demodulation.

Digital Communication :- Data Transmission - Serial & parallel transmission, Direction of data transmission – simplex, half duplex, full duplex, pulse modulation – PAM, PWM, PCM.

Unit-II: Transmitter & Receiver: - Functional descriptions.

Optical Transmitter Operation - Driver circuit for LED, driver circuit for Laser.

Optical Receiver Operation - Preamplifier design of APD control circuit, fibre optic trunk transmission * broadband transmission - Basic ideas with functional description.

Unit-III: Fibre Optic Measurements :- Test equipment, fibre loss & attenuation measurement, dispersion measurement, OTDR - block diagram & working.

Optical Power, wavelength, frequency, bandwith & signal quality measurements.

Fibre Optic Sensors - Coherent and non coherent system, Mach-Zehnder Fibre Optic interferometer, Fibre Fabery Perot interferometer.

Unit-IV: Fibre Optic Networks :-

> Computer Network Communication :- Network, types of network, concept of LAN, MAN, WAN, Network Topologies - bus, ring, star, tree.

Optical Networks :- Network Concepts, Introduction to SONET & SDN.

Unit-V: Advanced Optical Communication :- Fibre data links, Digital transmission System - Point to point

link, digital links. Wave length division Multiplexing. Internet Communication - Basic concepts.

Modem – Brief Explanation with simple diagrams.

Satellite Communication - Orbital Mechanics and Launching, satellite communication system.

Mobile Communication – Cellular Phone – functional description with simple block diagram.

Practicals: - Any 05 Experiments based on above syllabus.

Duration of Practical Marks:

One Experiment - 30 Marks Viva - 10 marks

Practical Record - 10 marks

Total Marks - 50

Project Work / Field Work :- Marks 50

The project work / field work involving study tour / visit to the related institution / organization / industry & the report should be submitted.

Recommended Books:-

- 1) Basic Electronics B.L.Theraja
- 2) Principles of Electronics V.K.Mehata
- 3) A course in Electrical, electronics measurements & instrumentation A.K.Sawhney
- 4) Digital Electronics & microcomputers Gaur.
- 5) Modern digital electronics R.P.Jain
- 6) A text book of communication engineering A. Kumar
- 7) Principles of communication engineering Umesh Sinha
- 8) Optical fibres and fibre optical communication systems Subirkumar Sarkar
- 9) Optoelectronics & fibre optic communication Sarkar and Sarkar
- 10) Fibre Optics Technology & Applications Stewart Personick
- 11) Fibre Optic communication D.G.Agrawal
- 12) T.B. on Optical fibre communication & applications S.C.Gupta.
- 13) Fibre optic communication systems G.P.Agrawal
- 14) Fundamentals of fibre optics in telecommunication & sensor system B.P.Paul.
- 15) Optoelectronics P.Bhushan Mital.
- 16) Optical fibre communication systems- M.K.Raina
- 17) Fibre Optics in Telecommunication Sharma N.
- 18) Optical Electeonics Ghatak
- 19) Fibre Optics and Optical Communication Ghatak A.K.
- 20) Introduction to fibre optics Ghatak, Thyagrajan
- 21) Fibre Optics and Opto Electronics R.P.Khare
- 22) Semiconductor optoelectronic devices Bhattacharya P.

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- 23) Optical Communication Jain, Gupta.
- 24) Optical fibre system & their components Sharma A.B., Halney, Butusov.
- 25) Laser : Principles, types & applications K.R.Nambiar.
- 26) Lightwave communication systems Rajappa Papannareddy
- 27) Electronic Communication Roddy, Coolen.
- 28) Understanding Fibre optics Jeff Hecht
- 29) Optoelectronic devices Wilson.
- 30) Fundamentals of optical fibres John Buck
- 31) A Introduction to optical fibre Cherin A.H.
- 32) Introduction to Optical electronics Jones, Harper, Row.
- 33) Optical communications systems Growar.
- 34) Fibre optics communications Palais.
- 35) Optical fiber system technology & applications Kao
- 36) Optical Fiber Communication Keiser.
- 37) Optical Fiber Communication Principles & applicatioans Senior J.M>
- 38) Optical Communication System- John Grower
- 39) Optical Fiber Communication A.Selverajan.

Notification

No.: 156 /2012 Date: 8/11/2012

Subject: One additional Chance for failures of old course of BLISc. & MLISc.

It is notified for information of all concerned that the Authorities of the University have provided one additional chance to appear for the examination to the failure students of old course of Bachelor of Library & Information Science (B.Lib.) and Master of Library and Information Science (M.Lib.) i.e. Summer-2013 Examination.

Sd/-

(Dineshkumar Joshi) Registrar, Sant Gadge Baba Amravati University.

NOTIFICATION

No.157/2012 Date:8/11/2012

Subject: Nomination of one respresentative on University Senate

It is notified for general information of all the concerned that the following person as mentioned in column No.3 has been nominated by the Hon'ble Vice-Chancellor on the University Senate for a term of one year by rotation i.e. 1st September 2012 to 31st August, 2013 under the provisions of Maharashtra Universities Act, 1994, as mentioned in column No.2 of the following table.

Sr.No.	Provision of Maharashtra Universities Act, 1994	Name & Address of the person
1	2	3
1)	U/s 25(2)(aa)	Sau.Aruna Kishor Kadam
	One representative of Municipal Council or	(Chairman, Municipal Council, Chikhali)
	a Municipal Corporation with the university	Infront of Rest House,
	area nominated by the Vice-Chancellor for	Anand Nagar,
	a term of one year by rotation.	Behind Pawan Vyayam Shala,
		Ward No. 19, Chikhali
		Tq. Chikhali, Dist.Buldhana

Sd/-(Dineshkumar Joshi) Registrar,
