

Council for Technical Education and Vocational Training
Office of the Controller of Examinations
 Sanothimi, Bhaktapur

Program: Regular/Back Exam-2073, Bhadra/Ashwin
 Diploma in Civil/Architecture/Mechanical/
 Automobile/ Information Technology/ Computer
 / Electrical/ Electrical & Electronics/Electronics/
 Geomatics/Engineering
Year/Part: I/II (New Course)
Subject: Math II

Full Mark: 80

Pass Mark:32
Time: 3 hrs.

Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full marks.

Attempt All questions
Group "A" [3x(5+5)=30]

1. ✓ a) Define Transpose of a matrix. If $A = \begin{pmatrix} 1 & 2 \\ 3 & 0 \end{pmatrix}$, $B = \begin{pmatrix} 2 & 1 \\ 1 & 2 \end{pmatrix}$, [1+4=5]
 verify that $(AB)^T = B^T A^T$.

[5]

b) Prove that

$$\begin{bmatrix} a+b+2c & c & c \\ a & b+c+2a & a \\ b & b & c+a+2b \end{bmatrix} = 2(a+b+c)^3$$

2. a) Show that the line joining the points (1,2,2) and (4,5,6) is [5]
 perpendicular to the line joining (5,-3,4) and (7,-1,1).

- b) Find the equation of the plane containing the lines [5]
 through the origin with direction cosines proportional to
 2,1,-2 and 5,2,-3.

3. ✓ a) Define absolute value of a complex number. [1+4=5]

If $\frac{1-ix}{1+ix} = a - ib$. Prove that $a^2 + b^2 = 1$

- b) Apply De-moiver's theorem to compute the cube roots of [5]
 unity.

Group "B" [10X5=50]

4. ✓ Solve by using Cramer's Rule or ROW Equivalent Matrix [5]
 method:

$$x+y-z=3$$

$$-2y+z=10$$

$$5x-y-2z=-3$$

5. ✓ In any $\triangle ABC$, Prove by vector method that [5]

$$\cos A = \frac{b^2 + c^2 - a^2}{2bc}$$

Engineering Math 2nd Semester Question Paper

M Mosston



Engineering Math 2nd Semester Question Paper:

A Textbook of Engineering Mathematics (M.D.U, K.U., G.J.U, Haryana) Sem-II N. P. Bali, 2011-12 **Engineering Mathematics: Volume II** C. S. Mujaawar, 2013-12-30 A comprehensive text for the students of engineering and technology The topics included are differential equations of first order and higher degree linear differential equations equations reducible to linear differential equations partial differential equations multiple integrals vector integration and laplace transforms **Engineering Mathematics-II: For WBUT** Babu Ram, 2012 *Learning Strategies in Engineering Mathematics* Birgit Griesse, 2017-02-28 Birgit Griesse presents MP2 Math Plus a support project for first year students in engineering at Ruhr Universit t Bochum that aims at preventing unnecessary drop out Conceptualisation and development of the project follow a design research approach according to Gravemeijer Cobb and van den Akker The interventions focus on learning strategies which are collected in a pre post design with the aid of the LIST questionnaire by Wild and Schiefele These and other data are utilised for the evaluation of MP2 Math Plus The results confirm the adaptations of the project procedures in successive cycles stress the importance of effort and motivation and assess the success of the project

Engineering Mathematics Anthony James Merrill Spencer, 1977 *Mathematical Modelling Courses for Engineering Education* Yasar Ersoy, Alfredo O. Moscardini, 2013-06-29 As the role of the modern engineer is markedly different from that of even a decade ago the theme of engineering mathematics education EME is an important one The need for mathematical model ling MM courses and consideration of the educational impact of computer based technology environments merit special attention This book contains the proceeding of the NATO Advanced Research Workshop held on this theme in July 1993 We have left the industrial age behind and have entered the in formation age Computers and other emerging technologies are penetrating society in depth and gaining a strong influence in de termining how in future society will be organised while the rapid change of information requires a more qualified work force This work force is vital to high technology and economic competitive ness in many industrialised countries throughout the world Within this framework the quality of EME has become an issue It is expected that the content of mathematics courses taught in schools of engineering today have to be re evaluated continuously with regard to computer based technology and the needs of mod ern information society The main aim of the workshop was to pro vide a forum for discussion between mathematicians engineering scientists mathematics educationalists and courseware develop ers in the higher education sector and to focus on the issues and problems of the design of more relevant and appropriate MM courses for engineering education *Artificial Intelligence in Education. Posters and Late Breaking Results, Workshops and Tutorials, Industry and Innovation Tracks, Practitioners, Doctoral Consortium, Blue Sky, and WideAIED* Alexandra I. Cristea, Erin Walker, Yu Lu, Olga C. Santos, Seiji Isotani, 2025-07-23 This three volume set CCIS 2590 2592 constitutes poster papers and late breaking results workshops and tutorials practitioners industry and policy track doctoral consortium blue sky and wideAIED papers presented at the 26th

International Conference on Artificial Intelligence in Education AIED 2025 held in Palermo Italy during July 22-26 2025 The 72 full papers and 73 short papers 72 of them presented as posters presented in this book were carefully reviewed and selected from 296 submissions They are organized in topical sections as follows Part I BlueSky Practitioners Industry and Policy WideAIED Doctoral Consortium Part II Late Breaking Results Part III Late Breaking Results Workshops and Tutorials

Proceedings American Society for Engineering Education. Conference,1995 *Electrical Engineering* ,1947-07

Modern Mathematics Education for Engineering Curricula in Europe Seppo Pohjolainen,Tuomas

Myllykoski,Christian Mercat,Sergey Sosnovsky,2018-07-16 This open access book provides a comprehensive overview of the core subjects comprising mathematical curricula for engineering studies in five European countries and identifies differences between two strong traditions of teaching mathematics to engineers The collective work of experts from a dozen universities critically examines various aspects of higher mathematical education The two EU Tempus IV projects MetaMath and MathGeAr investigate the current methodologies of mathematics education for technical and engineering disciplines The projects aim to improve the existing mathematics curricula in Russian Georgian and Armenian universities by introducing modern technology enhanced learning TEL methods and tools as well as by shifting the focus of engineering mathematics education from a purely theoretical tradition to a more applied paradigm MetaMath and MathGeAr have brought together mathematics educators TEL specialists and experts in education quality assurance from 21 organizations across six countries The results of a comprehensive comparative analysis of the entire spectrum of mathematics courses in the EU Russia Georgia and Armenia has been conducted have allowed the consortium to pinpoint and introduce several modifications to their curricula while preserving the generally strong state of university mathematics education in these countriesThe book presents the methodology procedure and results of this analysis This book is a valuable resource for teachers especially those teaching mathematics and curriculum planners for engineers as well as for a general audience interested in scientific and technical higher education Curriculum Handbook with General Information Concerning ... for the United States Air Force Academy

United States Air Force Academy,1996 **Resources in Education** ,2001-10 **Transforming Curriculum Through Teacher-Learner Partnerships** Nair, Pradeep,Keppell, Michael James,Lim, Chee Leong,Mari, TamilSalvi,Hassan, Nurhanim,2020-12-11 Empowering learners for life requires a fundamental shift in higher education curriculum design New priorities pedagogies technologies spaces and assessment strategies are required to enable learners to take ownership of their learning Student centeredness concepts are still prescriptive in nature as most decisions on curriculum assessment teaching and learning approaches are still teacher centric Teachers are developing student centered learning environments without the involvement of the learners in the planning decision making and or design process In addition some lecturers are still practicing the traditional approaches of content delivery and conventional assessment methods rather than experimenting with innovative practices suited for student centered approaches Therefore there is an ongoing need for

research focused on the importance and effectiveness of a paradigm shift in education that involves student teacher partnerships fueled by innovative teaching and learning designs where students take an active role and contribute as partners in learning Transforming Curriculum Through Teacher Learner Partnerships captures experiences and evidence among teachers in exploring the possibility of active student participation in curriculum design delivery and assessment through teacher learner partnership The chapters address issues of teacher learner partnerships in designing the learning environment and how student centered methods create resilient adaptable and future capable learners While highlighting topics within this scope such as learner autonomy learning performance self efficacy and teaching pedagogy this book is ideally intended for teachers administrators teacher educators practitioners stakeholders researchers academicians and students interested in issues related to the teacher learner partnership

Abstracts of Papers Presented to the American Mathematical Society American Mathematical Society,2005

Inquiry-Based Learning for Science, Technology, Engineering, and Math (STEM) Programs Patrick Blessinger,John M. Carfora,2015-10-20 This volume covers the many issues and concepts of how IBL can be applied to STEM programs and serves as a conceptual and practical resource and guide for educators and offers practical examples of IBL in action and diverse strategies on how to implement IBL in different contexts

American Universities and Colleges Praeger Publishers,2010-04-16 For well over a half century American Universities and Colleges has been the most comprehensive and highly respected directory of four year institutions of higher education in the United States A two volume set that Choice magazine hailed as a most important resource in its November 2006 issue this revised edition features the most up to date statistical data available to guide students in making a smart yet practical decision in choosing the university or college of their dreams In addition the set serves as an indispensable reference source for parents college advisors educators and public academic and high school librarians These two volumes provide extensive information on 1 900 institutions of higher education including all accredited colleges and universities that offer at least the baccalaureate degree This essential resource offers pertinent statistical data on such topics as tuition room and board admission requirements financial aid enrollments student life library holdings accelerated and study abroad programs departments and teaching staff buildings and grounds and degrees conferred Volume two of the set provides four indexes including an institutional Index a subject accreditation index a levels of degrees offered index and a tabular index of summary data by state These helpful indexes allow readers to find information easily and to make comparisons among institutions effectively Also contained within the text are charts and tables that provide easy access to comparative data on relevant topics

Interactive Collaborative Learning Michael E. Auer,David Guralnick,James Uhomoibhi,2017-01-07 This book presents the proceedings of the 19th International Conference on Interactive Collaborative Learning held 21 23 September 2016 at Clayton Hotel in Belfast UK We are currently witnessing a significant transformation in the development of education The impact of globalisation on all areas of human life the exponential acceleration of

developments in both technology and the global markets and the growing need for flexibility and agility are essential and challenging elements of this process that have to be addressed in general but especially in the context of engineering education To face these topical and very real challenges higher education is called upon to find innovative responses Since being founded in 1998 this conference has consistently been devoted to finding new approaches to learning with a focus on collaborative learning Today the ICL conferences have established themselves as a vital forum for the exchange of information on key trends and findings and of practical lessons learned while developing and testing elements of new technologies and pedagogies in learning

Engineering Education John Heywood,2006-01-24 A synthesis of nearly 2 000 articles to help make engineers better educators While a significant body of knowledge has evolved in the field of engineering education over the years much of the published information has been restricted to scholarly journals and has not found a broad audience This publication rectifies that situation by reviewing the findings of nearly 2 000 scholarly articles to help engineers become better educators devise more effective curricula and be more effective leaders and advocates in curriculum and research development The author s first objective is to provide an illustrative review of research and development in engineering education since 1960 His second objective is with the examples given to encourage the practice of classroom assessment and research and his third objective is to promote the idea of curriculum leadership The publication is divided into four main parts Part I demonstrates how the underpinnings of education history philosophy psychology sociology determine the aims and objectives of the curriculum and the curriculum s internal structure which integrates assessment content teaching and learning Part II focuses on the curriculum itself considering such key issues as content organization trends and change A chapter on interdisciplinary and integrated study and a chapter on project and problem based models of curriculum are included Part III examines problem solving creativity and design Part IV delves into teaching assessment and evaluation beginning with a chapter on the lecture cooperative learning and teamwork The book ends with a brief insightful forecast of the future of engineering education Because this is a practical tool and reference for engineers each chapter is self contained and may be read independently of the others Unlike other works in engineering education which are generally intended for educational researchers this publication is written not only for researchers in the field of engineering education but also for all engineers who teach All readers acquire a host of practical skills and knowledge in the fields of learning philosophy sociology and history as they specifically apply to the process of engineering curriculum improvement and evaluation

Research Anthology on Service Learning and Community Engagement Teaching Practices Management Association, Information Resources,2021-12-30 The need for more empathetic and community focused students must begin with educators as service learning has begun to grow in popularity throughout the years By implementing service and community aspects into the classroom at an early age educators have a greater chance of influencing students and creating a new generation of service minded individuals who care about their communities Teachers must have the necessary

skills and current information available to them to provide students with quality service learning and community engagement curricula The Research Anthology on Service Learning and Community Engagement Teaching Practices provides a thorough investigation of the current trends best practices and challenges of teaching practices for service learning and community engagement Using innovative research it outlines the struggles frameworks and recommendations necessary for educators to engage students and provide them with a comprehensive education in service learning Covering topics such as lesson planning teacher education and cultural humility it is a crucial reference for educators administrators universities lesson planners researchers academicians and students

Validity Argument in Language Testing Carol A. Chapelle,Erik Voss,2021-01-21 With examples of validation studies this book demonstrates how to design research investigating the validity of language tests

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