

## BOARD OF STUDIES MEETING (ONLINE)

Mathematics  
~~PHYSICS~~ DEPARTMENT

Agenda for Board of Studies meeting of Mathematics Department,  
Swarnandhra College of Engineering & Technology (Autonomous)  
held on **11.10.2023 at 3:00 PM**

1. Introduction of Members
2. Finalization of Linear Algebra and Calculus and Differential Equations and Vector Calculus Syllabus to be taught by Mathematics Department of Basic Sciences and Humanities from the Academic Year 2023-24 onwards.
3. Finalization of Model Paper and list of Paper Setters
4. Any other matter with the permission of the chair.

### MATHEMATICS:

[https://zoom.us/rec/share/qRraeZDm3rQcoP0wC\\_5mmHVjzNCjD0WxDLTfWolpGLPpDeKsOoSSBTJfJAO7noMj.FjIk0DSg9hot-1qj?startTime=1697088935000](https://zoom.us/rec/share/qRraeZDm3rQcoP0wC_5mmHVjzNCjD0WxDLTfWolpGLPpDeKsOoSSBTJfJAO7noMj.FjIk0DSg9hot-1qj?startTime=1697088935000)

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# SWARNANDHRA COLLEGE OF ENGINEERING & TECHNOLOGY

AUTONOMOUS



Accredited by National Board of Accreditation, AICTE, New Delhi  
Accredited by NAAC with "A" Grade-3.32/4.00 CGPA,  
Recognised under 2(f) & 2(B) of UGC Act 1956, Approved by AICTE,  
Permanently Affiliated to JNTUK, Kakinada  
SEETHARAMPURAM, NARSAPURAM-534 280, W.G.DT.,

## DEPARTMENT OF SCIENCES & HUMANITIES

### MINUTES OF BOARD OF STUDIES

**Subject: Mathematics**

**Date: 16.10.2023**

BOS Meeting (Online) of Mathematics was held on 11.10.2023 at 3:00PM

#### The following members were present:

1	Dr. G. V. S. R. Deekshitulu	Professor and HOD, JNTUK, Kakinada
2	Dr. Ch. Santhi Sundar Raj	Professor, Department of Mathematics Andhra University, Visakhapatnam
3	Dr. V. Swaminadham	Professor & HOD, SCET, Narsapur
4	Dr. P. Prem Delphy	Professor, Dept. of Mathematics, SCET, Narsapur
5	Dr. E. M. Vicvtoria	Assoc. Prof, Dept. of Mathematics, SCET, Narsapur
6.	Mr. Ch. Peddi Raju	Assoc. Prof, Dept. of Mathematics, SCET, Narsapur
7.	Mr. M. Ravindra Babu	Asst. Prof, Dept. of Mathematics, SCET, Narsapur
8.	Mr. T. V. L. Rao	Asst. Prof, Dept. of Mathematics, SCET, Narsapur

#### Resolutions:

- Proposed Linear Algebra and Calculus (Common to All Branches) Syllabus for B. Tech I Sem was approved with Minor Changes.
- Proposed Differential Equations and Vector Calculus (Common to All Branches) Syllabus for B. Tech II Sem was approved with Minor Changes.
- It is unanimously concluded to follow the rules and regulations stipulated by Academic Council for internal and external evaluations.

**Paper setters:**

The following are the list of paper setters

- 1) Dr. G. V. S. R. Deekshitulu  
Professor and HOD,  
JNTUK, Kakinada  
7799009970  
[dixitgvsr@gmail.com](mailto:dixitgvsr@gmail.com)
- 2) Dr. Ch. Santhi Sundar Raju  
Professor  
Department of Engineering Mathematics  
Andhra University  
Visakhapatnam  
9440697270  
[santhisundarraaj@yahoo.com](mailto:santhisundarraaj@yahoo.com)
- 3) Dr S. Sreenadh  
Professor of Mathematics  
S V University  
Tirupathi  
9490418165  
[profsreenadh@gmail.com](mailto:profsreenadh@gmail.com)
- 4) Dr K. Sobhan Babu  
Professor of Mathematics  
University College of Engineering  
JNTUK, Narsaraopet  
7382483829  
[sobhanjntu@gmail.com](mailto:sobhanjntu@gmail.com)
- 5) Dr A V Dattatreya Rao  
Professor of Mathematics  
ANU, Guntur  
9052181919  
[avdrao@gmail.com](mailto:avdrao@gmail.com)

The above mentioned changes are discussed and unanimously accepted by the BOS committee. The meeting was successfully closed with fruitful discussions.



*V. Swaminadham*

**Dr. V. Swaminadham**  
Chairman BOS

#### UNIT IV: Vector differentiation

Scalar and vector point functions, vector operator Del, Del applies to scalar point functions Gradient, Directional derivative, del applied to vector point functions-Scalar Potential Function-Divergence-Solenoidal and Curl-Irrotational, vector identities.

#### UNIT V: Vector integration

Line integral-circulation-work done, Surface integral-flux, Green's theorem in the plane (without proof), Stoke's theorem (without proof), Volume integral, Divergence theorem (without proof) and related problems.

#### Textbooks:

1. Higher Engineering Mathematics, B. S. Grewal, Khanna Publishers, 2017, 44<sup>th</sup> Edition

#### Reference book:

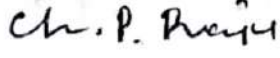
2. Advanced Engineering Mathematics, Erwin Kreyszig, John Wiley & Sons, 2018, 10<sup>th</sup> Edition

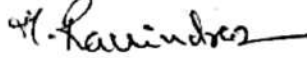
Dr. G.V.S.R. Deekhitulu

Dr. Ch. Santhi Sundar Raju

  
Dr. V. Swamiandham

  
Dr. P. Prem Delphy

  
Ch. Peddi Raju

  
M. Ravindra Babu

  
Dr E. M. Victoria

  
T. V. L. Rao