



**AICTE's Technical Book Writing & Translation
Rajiv Gandhi Proudyogiki Vishwavidyalaya, M.P.**

(State Technological University of Madhya Pradesh)
[Accredited with Grade 'A' by NAAC]
Air Port Road, Bhopal-MP, 462033

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RGPV/AICTE-TBWT/2021/07

Date: 24th November 2021

CIRCULAR

Subject: AICTE Technical Book Writing Pertaining to UG & Diploma 2nd Year.

Dear Ones

Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal invites Expression of Interest (EOI) under **AICTE Technical Book Writing & Translation Scheme pertaining to writing of Original Technical Books as per AICTE Model Curriculum and outcome based education.** The books for **UG and Diploma 2nd year** are to be written as per the list of books applicable to **3rd & 4th semester** (*for list refer page no 3-7*). The list is in three categories with all the three categories for 3rd and 4th semester to be written. The list also identifies the discipline of the shortlisted authors with respect to the subject specific book pertaining to the respective department.

Authors/reviewers to write original text books for 3rd and 4th semester of UG and Diploma in 5 disciplines.

- 1) Civil Engineering
- 2) Mechanical Engineering
- 3) Electronics and Communication Engineering
- 4) Computer Engineering
- 5) Electrical Engineering

Selection Criteria for the authors/reviewers be as follows:

- Total Years Teaching Experience
- No. of PhDs Guided
- No. of International/National workshop conducted/participated
- No. of Publications
- Book Writing Experience
- No. of Technical Books Written
- H Index Factor

Honorarium:

- An author UG and Diploma will be given an honorarium of Rs.2 Lakhs and Rs.1.5 Lakh respectively.
- A reviewer UG and Diploma will be given an honorarium of Rs. 40,000 and Rs.30,000 respectively.

The Last Date of submitting EOI as per the criteria is 30th November 2021.

Google Link for submission: <https://forms.gle/kur17TdALASmGtzB7>

Shortlisted applicants will be intimated by email as per the given guidelines of AICTE. If requires shortlisted applicants may be called for interaction/presentation before an expert committee. **Final selection of the author/reviewer would be confirmed & communicated by AICTE, New Delhi.**

Warm Regards,

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Dr. Savita Vyas
Coordinator,
AICTE TBW&T (Hindi)
Professor, Energy & Environment
UTD, RGPV, Bhopal, M.P.
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NUMBER OF BOOKS PROPOSED

It is proposed that the B.Tech. and Diploma books for the Third and Fourth semesters with framework of outcome based education may be written in English and translated in the regional languages of the country. After careful examination and review the proposed books are divided in 3 categories, viz. exclusive for the respective departments, common for more than one department and basket of courses from BS/ES/TC/Mgmt/Hum. The total number of the proposed books is **88**, i.e.

- **B.TECH.: 19 (THIRD SEMESTER) + 23 (FOURTH SEMESTER) = 42**
- **DIPLOMA: 25 (THIRD SEMESTER) + 21 (FOURTH SEMESTER) = 46**
- **TOTAL BOOKS = 88**

The books proposed for the **B.Tech. Third and Fourth Semesters** of Categories 1, 2 and 3 are given in **Tables 1 and 2** respectively. (Page No. 4,5)

The books proposed for the **Diploma Third and Fourth Semesters** of Categories 1, 2 and 3 are given in **Tables 3 and 4** respectively. (Page No. 6,7)

Anandam: This is a new course of Category – 3.

TABLE – 1**LIST OF BOOKS FOR B.TECH THIRD SEMESTER****Total Books: 19 (8+7+4)**

S. No.	Book Title	To be used by departments	To be written by
CATEGORY – 1 (Exclusive for one department)			
1.	Computer-aided Civil Engineering Drawing	CE	CE Expert
2.	Introduction to Civil Engineering	CE	CE Expert
3.	Data Structures and Algorithms	CSE	CSE Expert
4.	IT Workshop	CSE	CSE Expert
5.	Basics of Electrical Machines: Theory and Practicals	EE	EE Expert
6.	Electromagnetic Fields	EE	EE Expert
7.	Analog Electronic Devices: Theory and Practicals	ECE	ECE Expert
8.	Basic Thermodynamics	ME	ME Expert
CATEGORY – 2 (Common for more than one department)			
9.	Basics of Electronics	CE & ME	ECE Expert
10.	Engineering Mechanics	CE & ME	CE / ME Expert
11.	Analog Electronic Circuits: Theory and Practical	CSE, EE, ECE	EE Expert
12.	Digital Electronics and System Design	CSE, EE, ECE	ECE Expert
13.	Electric Circuits & Networks	EE & EC	EE Expert
14.	Signals and Systems	ECE, EE, CSE	ECE Expert
15.	Basics of Mechanics	EE	CE / ME Expert
CATEGORY – 3 (For basket of courses: BS/ES/TC/Mgmt/Hum)			
16.	Biology for Engineers	CE, ME, EE	Biology Expert
17.	Energy Science & Engineering	CE	Energy Expert
18.	Effective Technical Communication	CE, CSE	Humanities Expert
19.	Mathematics III *Differential Calculus *Transform & Discrete Mathematics *PDE, Probability & Statistics	CE, CSE, ME	Mathematics Expert

TABLE – 2**LIST OF BOOKS FOR B.TECH FOURTH SEMESTER****Total Books: 23 (16+3+4)**

S. No.	Book Title	To be used by departments	To be written by
CATEGORY – 1 (Exclusive for one department)			
1	Instrumentation for Civil Engineering Applications	CE	CE Expert
2	Engineering Geology	CE	CE Expert
3	Introduction to Mechanical Engineering	CE	CE Expert
4	Fluid Mechanics	CE	CE Expert
5	Surveying & Geomatics	CE	CE Expert
6	Testing & Evaluation of Civil Engineering Materials	CE	CE Expert
7	Civil Engineering- Societal & Global Impact	CE	CE Expert
8	Computer Organization & Architecture	CSE	CSE Expert
9	Operating Systems	CSE	CSE Expert
10	Design & Analysis of Algorithms	CSE	CSE Expert
11	Advanced Electrical Machines: Theory and Practicals	EE	EE Expert
12	Electronic Communication	ECE	ECE Expert
13	Applied Thermodynamics	ME	ME Expert
14	Fluid Mechanics & Fluid Machines	ME	ME Expert
15	Materials Engineering	ME	ME Expert
16	Instrumentation and Control	ME	EE Expert
CATEGORY – 2 (Common for more than one department)			
17	Strength of Materials	CE & ME	CE/ ME Expert
18	Power Electronics: Theory and Practicals	EE & ECE	EE Expert
19	Microprocessor and Microcontroller	EE & ECE	ECE Expert
CATEGORY – 3 (For basket of courses: BS/ES/TC/Mgmt/Hum)			
20	Disaster Management	CE	Civil / Environmental Experts
21	Organizational Behaviour	CE	Management Expert
22	Environmental Sciences	CE	Environmental Expert
23	Discrete Mathematics	CSE	Mathematics Expert

TABLE – 3**LIST OF BOOKS FOR DIPLOMA THIRD SEMESTER****Total Books: 25 (20+5)**

S. No.	Book Title	To be used by Depts.	To be written by
CATEGORY – 1 (Exclusive for one department)			
1	Construction Materials and their Testing	CE	CE Expert
2	Basic Surveying (Theory & Practical)	CE	CE Expert
3	Building Construction	CE	CE Expert
4	Concrete Technology & Testing of Concrete	CE	CE Expert
5	Geotechnical Engineering: (Theory & Practicals)	CE	CE Expert
6	Computer Programming: Theory & Practicals	CSE	CSE Expert
7	Scripting languages: Theory & Practicals	CSE	CSE Expert
8	Data Structures: Theory & practicals	CSE	CSE Expert
9	Computer System Organization	CSE	CSE Expert
10	Algorithms	CSE	CSE Expert
11	Introduction to Electric Generation Systems	EE	EE Expert
12	Electric Motors and Transformers	EE	EE Expert
13	Electronic Communication	ECE	ECE Expert
14	Electronic Devices and Circuits	ECE	ECE Expert
15	Digital Electronics	ECE	ECE Expert
16	Basic Mechanical Engineering	ME	ME Expert
17	Computer Aided Machine Drawing Practice	ME	ME Expert
18	Material Science & Engineering	ME	ME Expert
19	Manufacturing Engineering	ME	ME Expert
20	Thermal Engineering – I	ME	ME Expert
CATEGORY – 2 (Common for more than one department)			
21	Mechanics of Materials and their Testing	CE & ME	ME Expert
22	Electric Circuit and Networks	EE & EC	EE Expert
23	Electrical and Electronic Measurements and Instrumentation	EE & EC	ECE Expert
24	Renewable Energy Technologies	EE & EC	EE Expert
25	Fluid Mechanics & Hydraulic Machinery	ME & CE	ME / CE Expert
CATEGORY – 3 (For basket of courses: BS/ES/TC/Mgmt/Hum)			
NIL			

TABLE – 4**LIST OF BOOKS FOR DIPLOMA FOURTH SEMESTER****Total Books: 21 (19+1+1)**

S. No.	Book Title	To be used by Depts.	To be written by
CATEGORY – 1 (Exclusive for one department)			
1	Advanced Surveying (Theory & Practice)	CE	CE Expert
2	Theory of Structure	CE	CE Expert
3	Building Planning and Drawing	CE	CE Expert
4	Water Resource Engineering (Theory & Practice)	CE	CE Expert
5	Transportation Engineering (Theory & Practice)	CE	CE Expert
6	Operating System: Theory & Practicals	CSE	CSE Expert
7	Introduction to DBMS: Theory & Practicals	CSE	CSE Expert
8	Computer Networks: Theory & Practicals	CSE	CSE Expert
9	Software Engineering	CSE	CSE Expert
10	Web Technologies	CSE	CSE Expert
11	Fundamentals of Power Electronics	EE	EE Expert
12	Electric Power Transmission and Distribution	EE	EE Expert
13	Induction, Synchronous and Special Electrical Machines	EE	EE Expert
14	Consumer Electronics	ECE	ECE Expert
15	Digital Communication	ECE	ECE Expert
16	Electronic Equipment Maintenance	ECE	ECE Expert
17	Linear Integrated Circuits	ECE	ECE Expert
18	Measurements & Metrology	ME	ME Expert
19	Thermal Engineering II	ME	ME Expert
CATEGORY – 2 (Common for more than one department)			
20	Microcontrollers and Applications	ECE & EE	ECE Expert
CATEGORY – 3 (For basket of courses: BS/ES/TC/Mgmt/Hum)			
21	Essence of Indian Knowledge and Tradition	CE, EE, CSE, ME, ECE	IKS Expert