

Diploma Common Entrance Test

- Introduction to D-CET Entrance Exam
- Exam Pattern, Important Dates & Syllabus
- D-CET 2023 & 2024 Question Paper with Solutions





T.T.T **Academy**

OF SHARING KNOWLEDGE

ADMISSIONS OPEN FOR DIPLOMA CET (D-CET)

Diploma CET Course Details

Long Term Course

- Duration: Till Exam Date.
- Weekend Classes + Daily 2 hr Classes + 4-5 hrs of Classes in Crash Course.
- Offline & Online live classes.
- Mock Tests.
- Recorded Classes Available.

Short Term Course

- **Duration**: After 5th Sem. Exams.
- Every day 2 hr Classes + 4-5 hrs of Classes in Crash Course.
- Offline & Online live classes.
- Mock Tests.
- Recorded Classes Available.

Crash Course

- **Duration**: After 6th Sem. Exams.
- Every day 4-5 hrs of Classes.
- Offline & Online live classes.
- Mock Tests.
- Recorded Classes Available.

OUR STUDENTS TESTIMONIALS



TTT Institution has provided excellent guidance for DCET preparation, ensuring my success and securing 1st rank in Karnataka State. I am also thankful to my friends who played a crucial role in helping me achieving this milestone. Special gratitude to Savin Sir and the dedicated team for their effective online coaching classes. The regular mock tests helps us identify and rectify our mistake and with no doubt TTT Institution has helped many students across Karnataka to secure good ranking in DCET by providing both online and offline classes with well-equipped classroom, study material and infrastructure!!

Santhrupth H R State 1st Rank Holder Thank you so much sir

For everything from "Book to Coaching".

It helped a lot to crack D-CET and proud to say i secured 7th Rank, not only D-CET success but also i motivated for future competition, these 2 months of coaching had changed alot in my mindset.

> Srujan Buddar State 7th Rank Holder

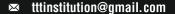






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Diploma CET

SYLLABUS Question Paper with Solutions [2023 & 2024]

Engineering Mathematics, Statistics & Analysis, Project Management Skills, IT Skills, FEEE



INTRODUCTION TO D-CET ENTRANCE EXAM

DCET - Diploma Common Entrance Test which is conducted by the Karnataka Examination Authority (KEA). The entrance exam is a requirement for enrolment in the second-year undergraduate engineering programmes offered through the lateral entry programme. In Karnataka, these programmes are offered at both day and evening colleges.

D-CET EXAM PATTERN

DCET Conducting Authority	Karnataka Examination Authority
Frequency of Conduct	1 yearly once
Exam level	State level
Languages	English
Application Mode	Online
Mode of Exam	Offline / Online
Exam Duration	3 hours
Number of Subjects	5
Total Questions	100
Total Marks	100
Mode of Counselling	Online / Offline

D-CET TENTATIVE IMPORTANT DATES

Events	Dates
Application form starts	1st Week of May
Last date for application submission	3 rd Week of May
D-CET exam date	Month of June
Counselling date	Month of July

DCET SYLLABUS with effect from the Year 2023 As per C-20 Diploma Curriculum

(Common to all Engineering Diploma Programmes)

DURATION: 3 Hours MAXIMUM MARKS: 100

SI. No.	TOPICS	MARKS
1	ENGINEERING MATHEMATICS	20
2	STATISTICS & ANALYTICS	20
3	IT SKILLS	20
4	FUNDAMENTALS OF ELECTRICAL & ELECTRONICS ENGINEERING	20
5	PROJECT MANAGEMENT SKILLS	20
	TOTAL	100

DETAILED SYLLABUS

1. ENGINEERING MATHEMATICS

20 Marks

Topics	Sub Topics	Marks
I. Matrices And Determinants	 Matrix and types Algebra of Matrices (addition, subtraction, scalar multiplication and multiplication) Evaluation of determinants of a square matrix of order 2 and 3. Singular matrices Cramer's rule for solving system of linear equations involving 2 and 3 variables Adjoint and Inverse of the non- singular matrices of order 2 and 3 Characteristic equation and Eigen values of a square matrix of order 2 	4
II. Straight Lines	 Slope of a straight line Intercepts of a straight line Intercept form of a straight line Slope-intercept form of a straight line Slope-point form of a straight line Two-point form of a straight line General form of a straight line Angle between two lines and conditions for lines to be parallel and perpendicular Equation of a straight line parallel to the given line Equation of a straight line perpendicular to the given line 	4

III. Trigonometry	 Concept of angles, their measurement, Radian measure and related conversions. Signs of trigonometric ratios in different quadrants (ASTC rule) Trigonometric ratios of allied angles (definition and the table of trigonometric ratios of standard allied angles say 900 ± θ, 1800 ± θ, 2700 ± θ. and 3600 ± θ.) Trigonometric ratios of compound angles (without proof) Trigonometric ratios of multiple angles 	4
IV. Differential Calculus And Applications	 Transformation formulae Derivatives of continuous functions in an interval (List of formulae) Rules of differentiation Successive differentiation (up to second order) Applications of differentiation 	4
V. Integral Calculus And Applications	 List of standard integrals and Basic rules of integration Evaluation of integrals of simple function and their combination Methods of integration Concept of definite integrals Applications of definite integrals 	4
		20

2. STATISTICS AND ANALYTICS

20 Marks

Topics	Sub Topics	Marks
I. Statistical Data Collection And Types	 Definition of data and classification (qualitative, quantitative discrete and continuous data) Data collection tools Questionnaires. Survey. Interviews. Focus group discussion Data cleaning 	3

	Descriptive statistics	
II.	i) Data tabulation (Frequency table)	
Summarization	ii) Relative frequency table.	
of Data	Grouped data	
	i) Bar graph	
	ii) Pie chart	
	iii) Line graph	6
	iv) Frequency polygon	
	v) Frequency curve	
	vi) Relative frequency polygon	
	vii) Histograms	
	viii) Box plot	
	Leaf-stem plot	
	Determination of central tendencies	
	Range, Mean, Mode and Median for the data	
III. Measure of	Determination of absolute measures of	5
Location And Dispersion	dispersion for data like range quartile deviation,	
Dispersion	mean deviation, standard deviation and variance.	
	Skewness and kurtosis graphs	
	Introduction to PYTHON.	
	• Syntax of PYTHON.	
IV. Introduction	• Comments of PYTHON.	
To Python	Data types of PYTHON. Variables of PYTHON.	
Programming	 Variables of PYTHON. If-else in PYTHON.	6
	Loops in PYTHON.	
	Arrays and functions in PYTHON.	
	· · · · · · · · · · · · · · · · · · ·	20
1		

3. IT SKILLS 20 Marks

Topics	Sub Topics	Marks
I. Introduction to Basics of Coding	 1.1 Introduction to computer programming 1.2 Algorithms - With sufficient examples 1.3 Flowcharts - With sufficient examples 1.4 Execute simple programs 1.5 Introduction to Application development 1.6 Simple android application development 	4

	21 Designation to the state of t	<u> </u>
II. Design And Develop Web Pages	 2.1 Basic web technologies Browser Web - Server Client-Server Model URL SEO techniques Domain names and domain name system. 2.2 Creating Web-pages with HTML5 - Static Introduction, Editors Tags, Attributes, Elements, Headings Links, Images, List, Tables, Forms Formatting, Layout, Iframes. 2.3 Formatting web pages with style sheets (CSS3). Introduction to CSS Inline CSS, Internal CSS, Classes and IDs div, Color, Floating, Positioning Margins, Padding, Borders Fonts, Aligning Text, Styling Links 2.4 Creating a web page dynamic using JavaScript. Dynamic web page and Introduction to JS Basic syntax Functions Events 2.5 Creating dashboards in websites. 	4
III. Business Process Automation / ERP	 3.1 Introduction to business process automation. 3.2 Organization structure and functions composition- Properties and applications Structure Types Functional Units 3.3 Workflows Introduction Components Use and use cases 3.4 Enterprise resource planning History Evolution Uses of ERP 	4

4.1 Fundamentals of cloud 4.2 Cloud service models • IaaS (Infrastructure-as-a-Service) • PaaS (Platform-as-a-Service) • SaaS (Software-as-a-Service) 4.3 Cloud deployment types • Public, • Private, • Hybrid • Community Cloud 4.4 Cloud services: • Google Drive - file storage and synchronization service developed by Google; • Google docs- bring your documents to life with smart editing and styling tools to help you easily format text and paragraphs; • Google Co-lab (Usage of Jupyter Notebook): Colab notebooks allow you to combine executable code and rich text in a single document, along with images, HTML, LaTeX, and more. • Google App Engine: Google App Engine is a Platform as a Service and cloud computing platform for developing and hosting web applications in Google-managed data centers. Applications are sandboxed and run across multiple servers. 4.5 Working of loT and loT components (Only brief introduction and demonstration through videos) 4.6 Explain concept of Internet of Things with examples • Smart city • Smart farming			
IV. Introduction To Cloud And lof T Concepts IV. Introduction To Cloud And Synch Telestanes Service Ival And Synch Telestanes			
PaaS (Platform-as-a-Service) SaaS (Software-as-a-Service) 4.3 Cloud deployment types Public, Private, Hybrid Community Cloud 4.4 Cloud services: Google Drive - file storage and synchronization service developed by Google; Google docs- bring your documents to life with smart editing and styling tools to help you easily format text and paragraphs; Google Co-lab (Usage of Jupyter Notebook): Colab notebooks allow you to combine executable code and rich text in a single document, along with images, HTML, LaTeX, and more. Google App Engine: Google App Engine is a Platform as a Service and cloud computing platform for developing and hosting web applications in Google-managed data centers. Applications are sandboxed and run across multiple servers. 4.5 Working of IoT and IoT components (Only brief introduction and demonstration through videos) 4.6 Explain concept of Internet of Things with examples Smart home Smart city		4.2 Cloud service models	
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Smart homeSmart city		introduction and demonstration through videos)	
Smart city		4.6 Explain concept of Internet of Things with examples	
		Smart home	
Smart farming		Smart city	
		Smart farming	

V. Cyber security And Safety	 5.1 Introduction to Cyber security and cyber safety. Brief awareness on cyber safety measures Identification of basic security issues in mobile phones and personal computers Installation of Antivirus software Firewall concepts Browser settings Importance of privacy and Password policy (Best practices). 5.2 Common threats - Demonstration Phishing DoS attack Man in the middle attack 	4
	•	20

4. FUNDAMENTALS OF ELECTRICAL & ELECTRONICS ENGINEERING

- 20 Marks

Topics	Sub Topics	Marks
I. Electrical Safety	 Electrical Symbols Electrical safety Identify Various types of safety signs and what they mean Demonstrate and practice use of PPE Demonstrate how to free a person from electrocution Administer appropriate first aid to victims, bandaging, heart attack, CPR, etc. Fire safety, causes and precautionary y activities. Use of appropriate fire extinguishers on different types of fires. Demonstrate rescue techniques applied during fire hazard, correct method to move injured people during emergency Inform relevant authority about any abnormal situation Earthing: Types 	2

	·	1
	1. Describe the sources of electrical energy.	
	2. Electrical current, voltage, emf, potential difference, resistance	
	with their SI units.	
	3. Mention the meters used to measure different	
	electrical quantities.	
	Identification Measuring devices	
	• Ammeter	
	• Voltmeter	
	Wattmeter	
	Ohmmeter	
	Digital Multimeter	
	Megger	
	Tong tester	
	4. Explain supply systems like AC, DC.	
	Relationship between V, I and	
II. Electrical	R. (Ohms law)	
Fundamentals	Behavior of V, I in Series and Parallel DC circuits.	5
	Describe open circuit, close cir cuit and short circuit	
	 Equation to find the effective Resistances 	
	connected in series	
	Equation to find effective Resistances connected in	
	parallel	
	 Resistances connected series and parallel combinations 	
	AC sine wave: Sinusoidal voltage, current, amplitude,	
	time-period, cycle, frequency, phase, phase difference,	
	and their units.	
	 Electrical work, power and power factor, SI units, 	
	mention the meters used to measure them.	
	5. Electrical energy	
	• SI units	
	Mention the meters used to measure them	
	 Single phase and Three phase supply. 	

III. Protective Devices And Wiring Circuits	 Protective Devices Necessity of Protective Devices Various Protective devices and their functions fuse wire, Glass cartridge fuse HRC fuse Kit-kat fuse MCB MCCB RCCB ELCB Relay Different types of electrician tools and their function. Describe various wiring tools. State procedure of care and maintenance of wiring tools. Describe different types of wiring systems. Surface conduit concealed conduit PVC casing capping Wiring systems and their applications. Describe the types of wires, cables used for different current and voltage ratings. 	3
IV. Electrical Machines and Batteries and UPS	 Transformer working principle Transformation ratio Types and applications with their ratings Induction motor Single phase and three phase Induction motor. Necessity of starters. Describe DOL AND STAR-DELTA starters. What are different causes and remedies for a failure of starter and induction motor. Battery Types of batteries (Lead acid battery, lithium, sealed maintenance free (SMF) battery, Modular battery). Selection criteria of batteries for different applications. Ampere-Hour Capacity. Efficiency UPS List the types and applications Selection criteria of UPS Sizing of UPS 	5

	Compare Conductors, insulators and semiconductors with	
	examples.	
	2. Identification of types and values of resistors-color codes.	
	3. PN junction diode	
	Symbol	
	Characteristics	
	Diode as switch.	
	Types of diodes and ratings	
	Applications	
	4. Rectifier	
	Need for AC to DC conversion	
	Bridge rectifier with and without C filter,	
	Rectifier IC.	
	5. Transistor (BJT)	
	Symbol	
	Structure	
V.	Working principle	
Introduction	Comparison of analog and digital signal	
to Electronic Devices and	Digital systems, examples.	5
Devices and Digital	Binary numbers, Boolean identities and laws.	
Electronics	Digital system building blocks: Basic logic gates, symbols	
	and truth tables.	
	IC-Definition and advantages.	
	6. Sensors	
	Concept	
	Types: Temperature, Pressure, Water, Light, Sound,	
	Smoke, proximity Sensors, Flow, humidity, voltage,	
	vibration, IR (Principle/working, ratings/ specifications,	
	cost, and applications)	
	7. Actuators	
	Concept	
	Types and applications.	
	Relay as an actuator	
	8. Microcontroller	
	As a programmable device and list of real-world	
	applications.	
	PLC and Their applications.	
		20

5. PROJECT MANAGEMENT SKILLS

20 Marks

Sub Topics	Marks
I. Introduction	
Meaning of Project	
Features of a Project	
Types of Projects	
Benefits of Project Management	
Obstacles in Project Management	
Project Management as Profession	
Project Manager and His Role	
Project Consultants	4
What is Operation?	
Difference between Project and Operation.	
What is "Process" in Project Management and	
Process Groups?	
What is Scope? Difference between Project	
Group Objectives and Project Scope.	
Essentials of Project Administration	
Project Team	
Project Design	
Work Breakdown Structure (WBS)	
• Project Execution Plan (PEP)	
Contracting Plan	
Work Packing Plan	4
Organisation Plan	
Systems and Procedure Plan	
Project Procedure Manual	
Project Diary	
Project Execution System	
Project Direction	
Communication in a Project	
Project Co-ordination	
Pre-requisites for Successful Project Implementation	
	I. Introduction • Meaning of Project • Features of a Project • Types of Projects • Benefits of Project Management • Obstacles in Project Management • Project Management as Profession • Project Manager and His Role • Project Consultants • What is Operation? • Difference between Project and Operation. • What is "Process" in Project Management and Process Groups? • What is Scope? Difference between Project Group Objectives and Project Scope. • Essentials of Project Administration • Project Team • Project Design • Work Breakdown Structure (WBS) • Project Execution Plan (PEP) • Contracting Plan • Work Packing Plan • Organisation Plan • Systems and Procedure Plan • Project Diary • Project Execution System • Project Direction • Communication in a Project • Project Co-ordination

		ı
III. Project	Phases of Project Life Cycle	
	Project Management Life Cycle (General)	
	Project Planning	4
	Project Execution	
	Project Closure	
	Project Risks	
	Types of Risks: Illustrations	
Life cycle	Risk Assessment Techniques with Illustrations	
	Project Cost Risk Analysis	
	Estimating Time and Cost Overrun Risks	
	Organization/Procedural/Systemic Reasons for	
	Project Cost Overruns	
	Time Overruns	
	Nature of Project Planning	
	Need for Project Planning	
	Functions of Project Planning	
	Steps in Project Planning	
	Project Planning Structure	
	 Project Objectives and Policies 	
	Tools of Project Planning	
	Project Scheduling	
IV. Project	Time Monitoring Efforts	
Planning,	Bounding Schedules	
Scheduling and Monitoring	Scheduling to Match Availability of Manpower	4
withing	Scheduling to Match Release of Funds	
	Problems in Scheduling Real-life Projects	
	Introduction	
	Situation Analysis and Problem Definition	
	Setting Goals and Objectives	
	Generating Structures and Strategies	
	Implementation	
	What is Project Evaluation?	
	Why is Project Evaluation Important?	
	What are the Challenges in Monitoring and Evaluation?	
		<u> </u>

	Projected Control Purposes	
	 Problems of Project Control 	
	Gantt Charts	
	Milestone Charts	
	 Critical Path Method (CPM) 	
	 Construction of a Network 	4
	 Network Technique in Project Scheduling 	
	 Crashing Project Duration through Network 	
V. Project	Project Review	
Control, Review and	Initial Review	
Audit	 Post Audit 	
	Performance Evaluation	
	Abandonment Analysis	
	Objectives of Project Audit	
	• Functions of Project Auditor	
	Project Audit Programme	
	 Difficulties in Establishing Audit Purpose and Scope 	
	 Digital Technology trends in Project management 	
	 Cloud Technology, IoT, AR and VR applications in 	
	Project management, Smart Cities	
		20

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T.T.T Academy D-CET Results Consistency

2022 Rankers

DCET State 8th Rank

Below 10 Ranks : 2 Students
Below 100 Ranks : 14 Students

Below 200 Ranks : 30 Students

Below 500 Ranks : 69 Students

Below 1000 Ranks : 121 Students

Below 1500 Ranks: 173 Students

Below 2000 Ranks: 205 Students

2023 Rankers

DCET State 1st Rank

Below 10 Ranks : 4 Students

Below 100 Ranks : 23 Students

Below 200 Ranks : 41 Students

Below 500 Ranks : 98 Students

Below 1000 Ranks : 173 Students

Below 1500 Ranks : 234 Students

Below 2000 Ranks: 289 Students

2024 Rankers

DCET State 3rd Rank

Below 10 Ranks: 2 Students

Below 100 Ranks: 32 Students

Below 200 Ranks: 46 Students

Below 500 Ranks: 99 Students

Below 1000 Ranks: 180 Students

Below 1500 Ranks: 257 Students

Below 2000 Ranks: 330 Students

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OUR D-CET 2023 TOP RANK HOLDERS





Srujan Buddar State Rank: 7 **BLDEA Vijayapura**



Gopinath Ramjee State Rank: 8 **SJPN Nidasoshi**



Chandana H S Rank: 10



Bindu S **PVP** Bangalore Rank: 19



Raghavendra Rank: 25



MEI Bengaluru Rank: 28



Vivitha Segueira Zhenkar Gowda K P MEI Bengaluru Rank: 31



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GPT Chitradurga Acharya Polytechnic Rank: 64



Rank: 70



Balaraj S A GPT Chennapattana Rank: 75



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VISSJ Shivamogga Rank: 90 (G55)



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SSPT Tumakur



Chandrashekhar M MEI Bangalore



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SJP Bengaluru



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Hemavathi V M Rank: 160



Kalpitha R B Rank: 161



Jeevan G M GPT Bellary Rank: 165



Krishna N SJP Bangalore Rank: 166



Chandan T S NTTF Bangalore Rank: 169



Punith Kumar C Rank: 171



Nandhini P MEI Bengaluru



Sai A Akhilandeshwari Shamanth Kumar V KVTP Chikkaballapura



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Darshan M SJP Bengaluru



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Lokesh N HEA Bengaluru Rank : 212



Mahanthesh K MEI Bengaluru



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Santhosh S APS Bengaluru Rank: 249



Prajna B MEI Bengaluru



GPT Bidar Rank: 253



GPT Bidar Rank: 270



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MNTI Bengaluru Rank: 345



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T Sai Deepthi HEA Bengaluru Rank: 18



Abhishek H G SDM Ujire Rank: 20



Sounina Bhat Rank : 21



Chethan Gowda NTTF Bengaluru Rank: 21 G55



Punith B R SJP Bengaluru Rank: 24



Akanksha N Bapuji Davanagere SJP Bengaluru Rank : 25 Rank: 30



SJP Bengaluru Rank: 40



Monisha H L PES Bengaluru Rank: 55



DSDP Shivamogga Rank: 56



Harshitha Nayak K **PVP Bengaluru**



Flavian F Joseph MSRIT Bengaluru Rank: 63



Trisha D PVP Bengaluru Rank : 64



Vinay V PVP Bengaluru Rank : 66



Abhishek S JSS Mysuru Rank : 72



Sagar E L MEI Bengaluru Rank : 76



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Shravan M S Bapuji Davanagere



Yogaraj V MEI Bengaluru



Bhuvan A East West Bengaluru SJP Bengaluru Rank: 94



Mithun G Rank: 99



Gayathri S PVP Bengaluru Rank: 104



Parinika S HEA Bengaluru Rank: 107



Prashanth SDM Ujire Rank : 116



Abhay N Y PES Bengaluru Rank: 127



Vidyashree V MEI Bengaluru Rank: 128



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Rank: 138



SVP Kumta

Rank : 87

Sunaina Babu U **GWP Bengaluru** Rank: 142



Harshitha G SJP Bengaluru Rank: 144



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Yasin Suhail MEI Bengaluru Rank : 149



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Praiwal K S DSDP Shivamogga Rank : 175



Sumathi C MEI Bengaluru Rank : 177



Bhumi PVP Bengaluru Rank : 183



Manali GPT Bida Rank · 188



Kallesh J SJP Bengaluru



R V Kirrthanaa Acharya Bengaluru



MEI Bengaluru



Chandan K M **GPT Tumkur** Rank : 217



BETP KM Doddi



Darshan Gowda SJP Bengaluru



Dikshith S SJP Bengaluru



Akash G S GPT Channapattana



Anant Ganapathi SVP Kumta



MEI Bengaluru Rank : 249



Meghana U MEI Bengaluru Rank: 255



Sheshaqiri S Vikas C GPT Chitradurga Rank: 258 Rank: 260



Rank: 277

MEI Bengaluru

Sai Ram Hatti GPT Vijaypura Siddaganga Tumkur Rank: 280



Vikas T P Bapuji Davanagere Rank: 281



Chandan Kumar C L MEI Bengaluru Rank: 288



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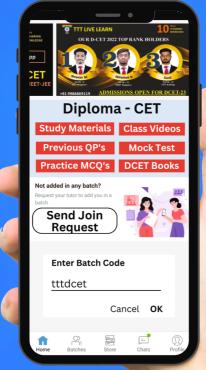
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