

CIVIL DEPARTMENT

NEWSLETTER

The best creator next to god are

.....Civil Engineers!

VISION

To be a human and technical resource centre to meet the needs of the construction industry

MISSION

Impart students the knowledge of principles and practices of Civil Engineering and shape them to meet the expectations of the industry

DEPARTMENT PROFILE

The Department of Civil Engineering, started in the year 2009, offers BE (Civil Engineering), ME (Construction Engineering & Management) & ME (Structural Engineering). The department activities are planned with dual inputs from Industry and reputed academic bodies in the state. Also, the department strengthens its core activities periodically with inputs from industry, civil engineers and contractors, some of whom are trustees of the Institution. In addition to regular academic activities, the department strives to transform students into a pragmatic Civil Engineer by involving them in solving field problems with needed guidance from faculty members.



EVENTS

Inaugural of Civil Engineering Associations
Guest Lectures
Value Added Courses
FDP, Workshops



Mr. K. E. VISWANATHAN M.Tech., Ph.D.



Head & Associate professor



Dr. G. RAMASAMY M.Tech., Ph.D.

(Professor, IIT-Roorkee, Retd.)



Prof. G. SRINIVASAN M.E.

(IISC ~ Structural Engineering)

Dr. G. S. THIRUGNANAM M.E.

(Structural Engineering), Ph.D.

EDITORS IN CHIEF**Mr. K.E. Viswanathan**

Head of the Department

Mr. P. Nallasamy

Assistant professor

STUDENT EDITORS**Mr. K. Azhagu saravanan**

III Year

Mr. B. Faizal

III Year

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Builders Engineering College,
Nathakadaiyur, Kangeyam Tk., Tirupur Dt.,
Tamilnadu, India - 638 108.

within this *Issue*

- ÷ **About the Institution**
- ÷ **From HoD Desk**
- ÷ **Programmes Organised**
- ÷ **Faculty Publications**
- ÷ **Faculty Achievements**
- ÷ **Students Achievements**

DEPARTMENT PROGRAMME EDUCATIONAL OBJECTIVES

- Graduates will achieve recognition in Civil Engineering profession as practicing Engineers and consultants. Provide technical services to leading organizations in diverse areas promoting professional and moral ethics.
- Graduates recognized for their professional and technical competence to provide sustainable solutions to societal problems.
- Graduates are nurtured to engage in continued learning through professional development and cognizant of emerging issues.

ABOUT THE INSTITUTION

Builders Engineering College (Formerly known as Erode Builder Educational Trust's Group of Institutions) was established by Erode Builder Educational Trust (EBET) in the year 2009 as an integrated campus and presently functioning as a technical campus. It offers six UG Programmes (BE - Civil, CSE, ECE, EEE, Mechanical) and four PG Programmes (ME - CEM, STR, CSE and MBA) with an intake of 114 students. Stepping into the fourteenth year of service, the Management, CEO, Principal and faculty members are committed to elevating the lives of budding rural aspirants through academics and research. The Chief Patrons are the pioneers in the field of infrastructure and construction all over India.

VISION

To be the most preferred knowledge provider.

MISSION

Builders Engineering College endeavors to prepare rural students for successful career through academic and applied research.

FROM HoD DESK

Civil Engineering, a versatile and enduring field, offers diverse career paths including construction, quality, design, maintenance, power plant engineering, and software development. The department features highly qualified faculty and well-equipped laboratories, ensuring quality education through theoretical learning, practical laboratory work, and exposure to modern technologies. Students engage in technical and sports events, enhancing their academic journey.

This newsletter celebrates the department's achievements despite space constraints, promising more in upcoming editions. The editorial team receives best wishes and seeks continued support. It underscores the department's commitment to fostering academic excellence and providing students with holistic learning experiences. Through theoretical knowledge, hands-on training, and industry exposure, students are prepared to tackle real-world engineering challenges. The department aims to continually enhance its educational offerings and invites patronage from the community. The newsletter serves as a platform to recognize accomplishments and inspire future success. With optimism and dedication, the department looks forward to sharing more achievements and developments in future editions.



Mr. K.E. Viswanathan

Head of the Department

PROGRAMMES ORGANISED

Join with Google Meet
<https://meet.google.com/pin-midw-ygp>

'INTRODUCTION TO SPECIAL CONCRETES'

Webinar on 16th June 2020 (Tuesday)
 @ 10:30 am – 11:30 am

Resource Person:
Dr. G.S. RAMPRADHEEP
 Associate Professor,
 Department of Civil Engineering,
 Kongu Engineering College.

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Department of Civil Engineering

e - Certificate
 will be given

BUILDERS
 ENGINEERING COLLEGE

EVENT COORDINATORS
 Mrs. L. REENA - 9486392524
 Ms. K. SURIYA PRABHA - 9626946943

Introduction to Special Concretes
16.06.2020 (10.30 am to 11.30 am)

Dr. G. Rampradheep assumes the pivotal role of the resource person for the forthcoming webinar, where he sheds light on the extensive applications of special concretes. Throughout the session, Dr. Rampradheep meticulously explores the nuanced ideology underlying the utilization of special concretes, offering a comprehensive analysis of their advantages and drawbacks in specialized contexts. Participants are treated to a detailed examination of the unique properties and practical implications of special concretes in diverse construction scenarios. Dr. Rampradheep's expertise and depth of knowledge enable him to elucidate complex concepts with clarity, ensuring that attendees gain a profound understanding of the subject matter. By delving into real-world examples and case studies, Dr. Rampradheep equips participants with the insights needed to navigate the challenges and opportunities associated with special concretes effectively. Through his insightful discussions, attendees are empowered to make informed decisions and optimize the use of special concretes in their projects. Dr. Rampradheep's webinar serves as a valuable platform for professionals and researchers to engage with cutting-edge developments and best practices in the realm of special concretes, fostering innovation and excellence in the construction industry.



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<https://meet.google.com/dno-whwk-jdm>

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Webinar on **25.06.2020 (Thursday)** @ **10.30 AM - 11.30 AM.**

PLANNING ASPECTS AND VASTU IN CIVIL ENGINEERING

RESOURCE PERSON:
Er. K. GOWRI SHANKAR
 Managing Director,
 KGS Builders, Tirupur.

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 CIVIL ENGINEERING**

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FACULTY COORDINATORS: Mr. V. GOWRI SHANKAR - 9488357375 | Mr. V. SASI KUMAR - 9789111210

Planning Aspects and Vastu in Civil Engineering

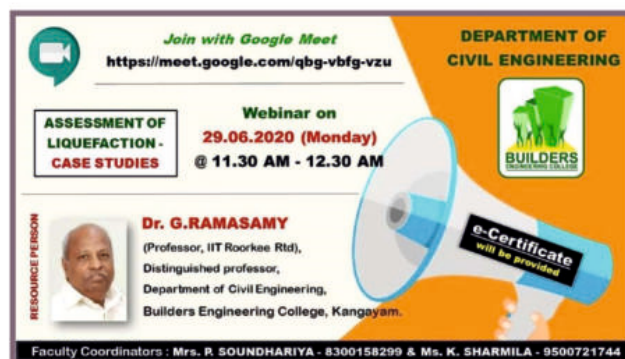
25.06.2020 (10.30 am to 11.30 am)

Er. K. Gowri Shankar spearheads the upcoming webinar as the esteemed resource person, offering profound insights into the principles of Vastu. Throughout the session, Er. Shankar meticulously elucidates the foundational aspects of Vastu, spanning design principles, layout considerations, measurement techniques, ground preparation strategies, space arrangement methodologies, and spatial geometry applications. Attendees are treated to a comprehensive exploration of Vastu's role in architecture, as Er. Shankar navigates through its intricate intersections with architectural design and planning. Through detailed explanations and practical examples, participants gain a deeper understanding of how Vastu principles can inform and influence architectural decisions.

As an expertise and a clarity presentation of Er. K. Gowri Shankar, ensures that attendees grasp the nuanced nuances of Vastu principles and their practical implications in architectural practice. By delving into the fundamentals and practical applications of Vastu, participants are empowered to integrate these principles into their own architectural projects effectively. The webinar serves as a valuable platform for professionals and enthusiasts alike to engage with Vastu principles, fostering a deeper appreciation for the symbiotic relationship between architecture and Vastu. Er. Shankar's session encourages attendees to explore the rich tapestry of Vastu, unlocking new avenues for creative expression and architectural innovation rooted in timeless principles of design harmony and spatial balance.

Assesment of Liquefaction – Case Studies

29.06.2020 (11.30 am to 12.30 pm)



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<https://meet.google.com/qbg-vbfg-vzu>

**DEPARTMENT OF
CIVIL ENGINEERING**

**ASSESSMENT OF
LIQUEFACTION -
CASE STUDIES**

Webinar on
29.06.2020 (Monday)
 @ **11.30 AM - 12.30 AM**

RESOURCE PERSON
Dr. G. RAMASAMY
 (Professor, IIT Roorkee Rtd),
 Distinguished professor,
 Department of Civil Engineering,
 Builders Engineering College, Kangayam.

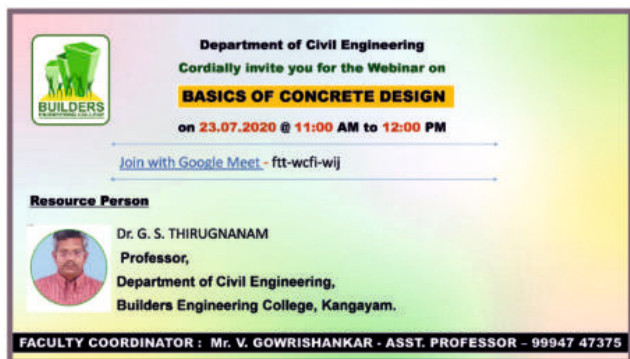
e-Certificate
will be provided

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FACULTY COORDINATORS: Mrs. R. SOUNDHARIYA - 8300158299 & Ms. K. SHARMILA - 9500721744

Dr. G. Ramasamy serves as the distinguished resource person for the upcoming webinar, where he delves into the nuanced topic of liquefaction evaluation and mitigation methods. Throughout the session, Dr. Ramasamy meticulously navigates through the typical methods utilized by geotechnical engineers to assess the liquefaction potential of soils, focusing primarily on in situ tests. Attendees gain valuable insights into the intricacies of these evaluation methods, understanding their significance in identifying and addressing liquefaction risks in soil mechanics.

Furthermore, Dr. Ramasamy elaborates on common mitigation strategies aimed at mitigating liquefaction hazards. Through detailed explanations and practical examples, participants gain a deeper understanding of the various techniques and approaches available for mitigating liquefaction risks in geotechnical engineering projects. Dr. Ramasamy's expertise and clarity of presentation ensure that attendees grasp the nuances of liquefaction evaluation and mitigation effectively. The webinar provides a valuable platform for professionals and researchers to engage with cutting-edge developments and best practices in geotechnical engineering, fostering innovation and excellence in the field.



Department of Civil Engineering
Cordially invite you for the Webinar on
BASICS OF CONCRETE DESIGN
on **23.07.2020 @ 11:00 AM to 12:00 PM**
[Join with Google Meet - fit-wcfi-wij](#)

Resource Person

Dr. G. S. THIRUGNANAM
Professor,
Department of Civil Engineering,
Builders Engineering College, Kangayam.

FACULTY COORDINATOR : Mr. V. GOWRISHANKAR - ASST. PROFESSOR - 99947 47375

Basics of Concrete Design 23.07.2020 (11 am to 12 pm)

Dr. S. Thirugnanam assumes the role of the esteemed resource person for the forthcoming webinar, where he delves into various aspects of concrete mix design and the vast job opportunities available in the civil engineering field. Throughout the session, Dr. Thirugnanam introduces participants to the fundamental principles underlying concrete mix design, emphasizing its critical role in construction projects. Attendees gain insights into the diverse ideologies shaping the design of concrete mixes, understanding the importance of selecting appropriate materials and proportions to meet specific project requirements. Moreover, Dr. Thirugnanam discusses the latest codal provisions governing mix proportions for concrete design, ensuring that participants are acquainted with the most up-to-date standards and practices in the field. By providing detailed explanations and practical examples, he empowers attendees to navigate the complexities of mix design effectively and make informed decisions in their professional endeavors.

The webinar serves as a valuable platform for professionals and aspiring engineers to explore the intricacies of concrete mix design and gain a deeper understanding of its practical applications. Dr. Thirugnanam's expertise and comprehensive coverage of the subject matter contribute to a rich learning experience, fostering innovation and excellence in the civil engineering domain. Participants emerge from the session equipped with valuable insights and skills essential for success in their careers.

Importance of Civil Engineering 27.06.2020



Join with Google Meet
<https://meet.google.com/gnv-ecxb-bia>

Webinar on 27.06.2020 (Saturday)
@ 10.30 AM - 11.30 AM.

IMPORTANCE OF CIVIL ENGINEERING

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RESOURCE PERSON
Dr. R. LOGANATHAN
Environmental Expert / Construction Management,
Supervision Consultant, New Tirupur Area
Development Corporation Limited, Tirupur.



FACULTY COORDINATORS : Mr. P. ESWARAMOORTHY - 9626612485 | Mr. P. NALLASAMY - 9715097042

Dr. R. Loganathan spearheads the upcoming webinar as the esteemed resource person, offering a comprehensive session on the significance and fundamental principles underlying the planning, design, construction, and maintenance of critical infrastructure. In his detailed presentation, Dr. Loganathan emphasizes the pivotal role of civil engineering in addressing the challenges of the 21st century. As society grapples with evolving environmental, social, and economic concerns, the importance of resilient, sustainable, and well-designed infrastructure becomes increasingly apparent.

Through insightful discussions and examples, attendees gain a deeper understanding of the multifaceted aspects of civil engineering and its impact on societal well-being. Dr. Loganathan's expertise and clarity of presentation ensure that participants grasp the nuances of infrastructure planning and design effectively. The webinar serves as a valuable platform for professionals, students, and enthusiasts to engage with current trends, best practices, and innovative solutions in civil engineering. By fostering dialogue and knowledge exchange, the session contributes to the advancement of resilient infrastructure development, paving the way for a more sustainable and prosperous future.



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<https://meet.google.com/wvz-ujwk-ahn>

Webinar on 26.06.2020 @ 10:30 AM to 11:30 AM

DIGITAL LAND SURVEYING USING TOTAL STATION

Exclusively for Diploma Students

Resource Person
Mr. D. SENTHIL KUMAR
 Assistant Professor,
 Department of Civil Engineering,
 Builders Engineering College, Kangayam.

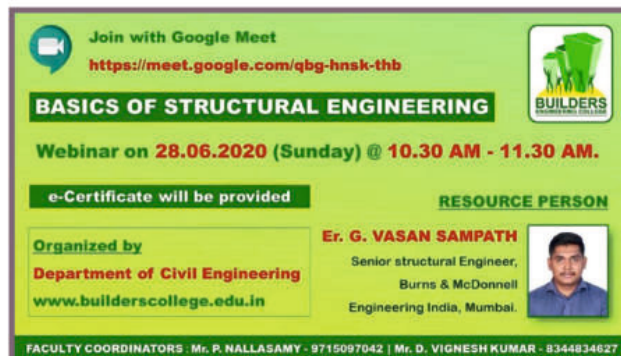
FACULTY COORDINATOR : Mr. V. GOWRISHANKAR - ASST. PROFESSOR - 9488357375

Digital Land Surveying using Total Station 26.06.2020

Mr. D. Senthil Kumar assumes the role of the resource person for the upcoming webinar, where he sheds light on the significance of digital land surveying utilizing Total Station instruments. In his conclusive remarks, Mr. Kumar underscores the indispensable nature of this technology in a multitude of fields owing to its precision, efficiency, and versatility. Digital land surveying with Total Station instruments is instrumental across diverse domains, including construction, urban planning, environmental studies, and legal surveys. Its ability to accurately measure distances, angles, and elevations makes it invaluable for mapping and analyzing landscapes, properties, and infrastructure projects. Moreover, its efficiency in data collection and processing enhances decision-making processes and facilitates effective project management.

Furthermore, Total Station technology contributes significantly to the development and management of both built and natural environments. Its applications extend beyond traditional surveying methods, offering innovative solutions for modern challenges in land management, resource allocation, and environmental conservation. Through insightful discussions and practical examples, attendees gain a deeper appreciation for the role of digital land surveying in shaping our world. Mr. Kumar's expertise and comprehensive coverage of the topic provide participants with valuable insights and perspectives, empowering them to leverage Total Station technology for enhanced productivity and sustainable development across various sectors.

Basics of Structural Engineering 28.06.2020



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<https://meet.google.com/qbg-hnsk-thb>

BASICS OF STRUCTURAL ENGINEERING

Webinar on 28.06.2020 (Sunday) @ 10.30 AM - 11.30 AM.

e-Certificate will be provided

RESOURCE PERSON
Er. G. VASAN SAMPATH
 Senior structural Engineer,
 Burns & McDonnell
 Engineering India, Mumbai.

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FACULTY COORDINATORS : Mr. P. NALLASAMY - 9715097042 | Mr. D. VIGNESH KUMAR - 8344834627

Er. G. Vasan Sampath assumes the crucial role of the resource person in this context. Structural engineering stands as the cornerstone of the built environment, offering the fundamental framework for the conception, assessment, and erection of secure and durable structures. It encompasses a broad spectrum of disciplines, including materials science, mechanics, and mathematics, to ensure the integrity and stability of architectural marvels. Structural engineers meticulously analyze and optimize designs to withstand various loads, including gravity, wind, and seismic forces, while adhering to stringent safety standards and regulations.

The field of structural engineering continually evolves, incorporating advancements in technology, materials, and construction techniques to address modern challenges and opportunities. As the demand for sustainable and resilient infrastructure grows, structural engineers play a pivotal role in shaping the urban landscape and fostering environmental stewardship. Through their expertise and innovation, they contribute to the creation of safer, more efficient, and aesthetically pleasing structures that enrich communities and endure the test of time. Er. G. Vasan Sampath's expertise and insights further illuminate the critical role of structural engineering in shaping the built environment and advancing human civilization.

Join with Google Meet
<https://meet.google.com/cwo-hjpt-pgh>

e-Certificate
will be provided

Webinar on 23.06.2020 (Tuesday) @ 10.00 AM - 11.00 AM

A DISCUSSION ON IMPORTANCE OF PG COURSES AFTER B.E. CIVIL ENGINEERING

RESOURCE PERSON:

Dr. G.S. THIRUGNANAM
 Professor,
 Department of Civil Engineering,
 Builders Engineering College.

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EVENT COORDINATOR - Prof. P. ESWARAMOORTHY - 96266 12485 | www.builderscollege.edu.in

A Discussion on Importance of PG Courses After B.E Civil Engineering

23.06.2020

Dr. S. Thirugnanam is entrusted as the resource person for this webinar, guiding participants on the strategic pursuit of postgraduate (PG) courses following the completion of a Bachelor of Engineering (B.E.) degree in Civil Engineering. Opting for PG courses after B.E. marks a strategic investment in one's professional growth and development. Such courses offer a transformative pathway towards evolving into a comprehensive and influential professional in the domain of infrastructure development and allied fields. Beyond the technical aspects of engineering, PG courses equip individuals with advanced knowledge, specialized skills, and critical thinking capabilities essential for navigating complex challenges in the industry.

Moreover, pursuing PG courses fosters a holistic understanding of diverse facets of infrastructure development, including project management, sustainability, urban planning, and policy analysis. This comprehensive skill set not only enhances career prospects but also empowers individuals to make meaningful contributions to society and address pressing global issues. In essence, PG courses serve as a catalyst for professional excellence, enabling engineers to transcend conventional boundaries and emerge as leaders, innovators, and change agents in the dynamic landscape of infrastructure development. Dr. S. Thirugnanam's guidance in this webinar provides invaluable insights and guidance for individuals seeking to chart a successful career trajectory in civil engineering and related fields.

AUTODESK BIM

30.06.2020

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will be provided

Join with Google Meet
<https://meet.google.com/xxi-dmbm-jpu>

Webinar on 30.06.2020 (Tuesday) @ 10.00 AM - 11.00 AM.

AUTODESK BIM

RESOURCE PERSON

Mr. P. SURESH ANAND
 Technical Head,
 C - Cube Technologies

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FACULTY COORDINATORS - Mr. K.R. ARVIND - 8883231260 | Mr. V. SANKAR - 9942326089

Mr. P. Suresh Anand assumes the role of the resource person for this webinar, which focuses on the dynamic community of Autodesk BIM users. The webinar underscores the vibrant nature of this community, which thrives on collaborative forums, online platforms, and shared resources. These platforms serve as invaluable spaces for professionals to engage, learn, and exchange ideas, collectively advancing their proficiency in Building Information Modeling (BIM). Through collaborative efforts and knowledge-sharing initiatives, professionals within the Autodesk BIM community contribute to the growth and development of industry standards, best practices, and innovative solutions. Furthermore, the webinar highlights the significance of these collaborative spaces in fostering a culture of continuous learning and professional development. By leveraging the diverse experiences and expertise of its members, the Autodesk BIM community empowers individuals to stay updated with emerging trends, enhance their skills, and overcome challenges encountered in their respective projects. In essence, the webinar emphasizes the transformative power of community-driven collaboration in propelling the field of BIM forward and driving positive change within the industry. Mr. P. Suresh Anand's insights and expertise enrich the discussion, providing participants with valuable perspectives and opportunities to actively engage with the Autodesk BIM community.

STUDENTS ACHIEVEMENTS

Date	Name of the Student	Name of the Event/Title	Organizer
11.07.2020	S. Akash Priyadharshan	Quiz	MPNMJ Engineering College, Chennimalai

PROFESSIONAL ACTIVITIES

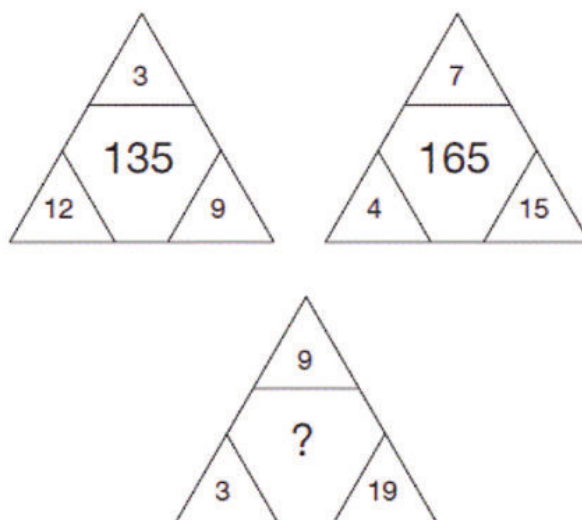
Date	Associated with Professional Society/Chapter/ Student Association	Name of the Event	Name of the Organizer/ Resource person
13.08.2020	ICI Student Chapter	Inauguration of ICI Student Chapter	Ms. P.Soundariya
17.10.2020	ICI	Valedictory function of CIVILFEST'20 - A National Level Technical symposium	Mr. G. Srinivasan IISC Structural Engineering

PROGRAMMES ATTENDED BY FACULTY

Date	Name of the Coordinator	Title	Institution
02.07.2020 to 04.07.2020	Mr. P. Nallasamy	Research Paper Writing, Funding and Patent Methodologies	Dr. NGP Institute of Tech., Coimbatore
23.06.2020 to 03.07.2020	Ms. L. Reena	STTP on Advances in Technology and Management for Civil Engineering (ATMCE)	ICT Academy
22.06.2020 to 27.06.2020	Mr. D. Senthilkumar	Industry Drawings using AutoCAD (Online Live FDP)	ICT Academy

STUDENTS CORNER

What number should replace the question mark?



Answer: $(9+3) \times 19 = 228$.