

Counselling Code : MTEC

Estd : 1999

JNTUH College Code : 86



MOTHER THERESSA COLLEGE OF ENGINEERING & TECHNOLOGY

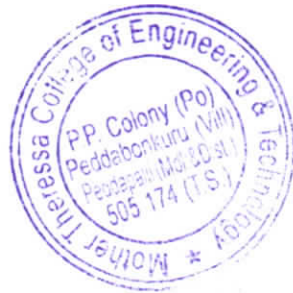
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VISION, MISSION, PEO'S, PO'S, PSO'S

S.NO	DESCRIPTION	PAGE NO.
1	INSTITUTE VISSION &MISSION	1
2	DEPARTMENT VISION&MISSION	2 - 11
3	PROGRAM OUTCOMES	12-13
4	PSO'S & PEO'S	14 - 22



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Institute Vision

Fostering a culture of educational excellence, empowering engineers through innovation and collaboration for a brighter, sustainable future.

Institute Mission

IM1: To provide high-quality education that equips engineers with the knowledge and skills to excel in a rapidly changing technological landscape.

IM2: To encourage innovation through research and practical applications, promoting a spirit of creativity and problem-solving.

IM3: To foster collaboration by building strong partnerships with industry, academia, and the community to address real-world challenges.

IM4: To instill a sense of responsibility for sustainability and environmental awareness, preparing engineers to contribute to a greener, more sustainable future



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Website : www.mtec86.ac.in E-mail: mtec.86@gmail.com Contact : +91 9849472523, +91 9542709545, +91 9989959556.**ELECTRONIC AND COMMUNICATION ENGINEERING
VISION**

Equipping Electronics and Communication Engineers with exceptional educational opportunities, nurturing innovation, and advocating collaborative excellence in order to construct circuits and contribute to a sustainable, interconnected future

Mission

DM1: To deliver exceptional education that equips Electronics and Communication Engineers with the knowledge and skills to thrive in an ever-evolving technological landscape.

DM2: To foster innovation through research and practical applications, cultivating a culture of creativity and effective problem-solving within the field of Electronics and Communication.

DM3: To promote collaboration by establishing robust partnerships with industry, academia, and the community, addressing real-world challenges and enhancing the ECE domain's development.

DM4: To instill a strong sense of responsibility for sustainability and environmental awareness, preparing Electronics and Communication Engineers to actively contribute to a greener, more sustainable future within their field.



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ELECTRICAL AND ELECTRONIC ENGINEERING

VISION

Empowering Electrical and Electronics Engineers through cutting-edge education, fostering innovation, and promoting collaboration to advance electrical technology for a sustainable and electrifying future powered by solar energy.

MISSION

DM1: To deliver high-quality education that equips Electrical and Electronics Engineers with the knowledge and skills required to excel in a rapidly changing technological landscape.

DM2: To promote innovation through research and practical applications, fostering a culture of creativity and problem-solving within the field of Electrical and Electronics Engineering.

DM3: To cultivate collaboration by establishing strong partnerships with industry, academia, and the community to address real-world challenges in the Electrical and Electronics domain.

DM4: To instill a profound sense of responsibility for sustainability and environmental awareness, preparing Electrical and Electronics Engineers to actively contribute to a greener, more sustainable future within their field



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COMPUTER SCIENCE AND ENGINEERING

VISION

Equipping Computer Science Engineers in all domains with the necessary skills for success through exceptional education, innovation, and collaborative excellence, all in the pursuit of a sustainable and technologically advanced future

MISSION

M1: To deliver high-quality education that equips Computer Science Engineers with the knowledge and skills needed to excel in a rapidly evolving technological landscape.

M2: To promote innovation through research and practical applications, nurturing a culture of creativity and effective problem-solving within the domain of Computer Science Engineering.

M3: To cultivate collaboration by forging strong partnerships with industry, academia, and the community to address real-world challenges, thus enhancing the growth and development of Computer Science Engineering.

M4: To instill a profound sense of responsibility for sustainability and environmental awareness, preparing Computer Science Engineers to actively contribute to a greener, more sustainable future, in line with their field's advancements.



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Website : www.mtec86.ac.in E-mail: mtec.86@gmail.com Contact : +91 9849472523, +91 9542709545, +91 9989959556.**COMPUTER SCIENCE AND ENGINEERING****DATA SCIENCE****VISION**

Empowering Data Science Engineers through Educational Excellence, Innovation, and Collaborative Excellence for a Sustainable and Data-Driven Future."

MISSION

DM1: To deliver high-quality education that equips Computer Science and Data Science professionals with the knowledge and skills to excel in a rapidly changing technological landscape.

DM2: To promote innovation through research and practical applications, fostering a culture of creativity and effective problem-solving within the fields of Computer Science and Data Science.

DM3: To cultivate collaboration by establishing strong partnerships with industry, academia, and the community to address real-world challenges in the domains of Computer Science and Data Science.

DM4: To instill a profound sense of responsibility for sustainability and environmental awareness, preparing Computer Science and Data Science professionals to actively contribute to a greener, more sustainable future while leveraging data to drive positive changes in society and the environment.




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Fostering a sustainable and technologically advanced future by promoting educational excellence, innovation, and collaborative excellence for Computer Science and Information Technology engineers' empowerment.

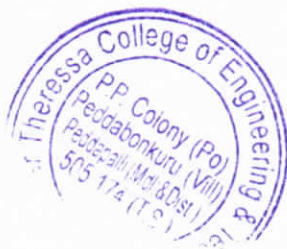
MISSION

M1: To deliver high-quality education that equips Computer Science and Information Technology professionals with the knowledge and skills to excel in a rapidly changing technological landscape.

M2: To foster innovation through research and practical applications, nurturing a culture of creativity and effective problem-solving within the field of Computer Science and Information Technology.

M3: To promote collaboration by establishing strong partnerships with industry, academia, and the community to address real-world challenges in the Computer Science and Information Technology domain.

M4: To instill a profound sense of responsibility for sustainability and environmental awareness, preparing Computer Science and Information Technology professionals to actively contribute to a greener, more sustainable future within their field.



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COMPUTER SCIENCE AND ENGINEERING

CYBER SECURITY

VISION

"Empowering Cyber Security Engineers through Educational Excellence, Innovation, and Collaborative Excellence for a Safer and More Secure Digital Future."

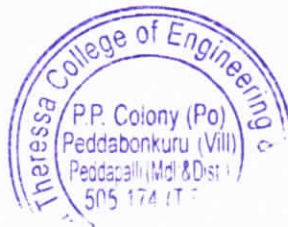
MISSION

DM1: To deliver high-quality education that equips Computer Science and Cyber Security professionals with the knowledge and skills to excel in a rapidly changing technological landscape.

DM2: To promote innovation through research and practical applications, fostering a culture of creativity and effective problem-solving within the field of Computer Science and Cyber Security.

DM3: To cultivate collaboration by establishing strong partnerships with industry, academia, and the community to address real-world challenges in the Computer Science and Cyber Security domain.

DM4: To instill a profound sense of responsibility for sustainability and environmental awareness, preparing Computer Science and Cyber Security professionals to actively contribute to a greener, more sustainable future within their field, while ensuring the security of digital systems and data



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COMPUTER SCIENCES AND ENGINEERING

ARTIFICIAL INTELLEGNCY AND MEACHIANE LEARNING

VISSION

Fostering a sustainable and smarter future by promoting educational excellence, innovation, and collaborative excellence for Artificial Intelligence and Machine Learning engineers empowerment

MISSION

DM1: To deliver high-quality education that equips professionals in Artificial Intelligence and Machine Learning with the knowledge and skills to excel in a rapidly changing technological landscape.

DM2: To promote innovation through research and practical applications, fostering a culture of creativity and effective problem-solving within the fields of Artificial Intelligence and Machine Learning.

DM3: To cultivate collaboration by establishing strong partnerships with industry, academia, and the community to address real-world challenges in the domains of Artificial Intelligence and Machine Learning.

DM4: To instill a profound sense of responsibility for sustainability and environmental awareness, preparing professionals in Artificial Intelligence and Machine Learning to actively contribute to a greener, more sustainable future while leveraging AI and ML technologies for positive societal and environmental impact.



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The Department of Mechanical Engineering is committed to fostering a culture of educational excellence, empowering engineers through innovation, and promoting collaboration to contribute to a brighter and sustainable future in all domains of mechanical engineering.

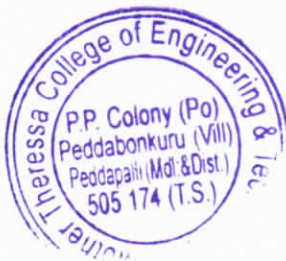
MISSION

DM1: To provide a high-quality education that equips Mechanical Engineers with the knowledge and skills necessary to excel in a rapidly changing technological landscape.

DM2: To foster innovation through research and practical applications, cultivating a culture of creativity and effective problem-solving within the field of Mechanical Engineering.

DM3: To promote collaboration by establishing strong partnerships with industry, academia, and the community to address real-world challenges in the Mechanical Engineering domain.

DM4: To instill a profound sense of responsibility for sustainability and environmental awareness, preparing Mechanical Engineers to actively contribute to a greener, more sustainable future within the field of Mechanical Engineering.



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MASTER OF BUSINESS ADMINISTRATION

VISION

Empowering Business Leaders across all industry sectors through Educational Excellence, Innovation, and Collaborative Excellence for a Sustainable and Enterprising Future

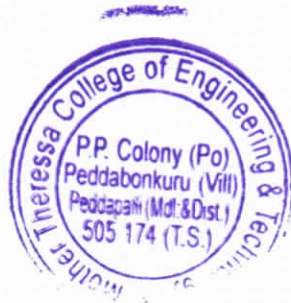
MISSION

DM1: To deliver high-quality education that equips future business leaders with the knowledge and skills to excel in a rapidly changing business landscape.

DM2: To foster innovation through research and practical applications, promoting a culture of creativity and effective problem-solving within the field of business and management.

DM3: To cultivate collaboration by establishing strong partnerships with industry, academia, and the community to address real-world business challenges.

DM4: To instill a profound sense of responsibility for sustainability and environmental awareness, preparing MBA graduates to contribute to a greener, more sustainable business future in alignment with the evolving business landscape

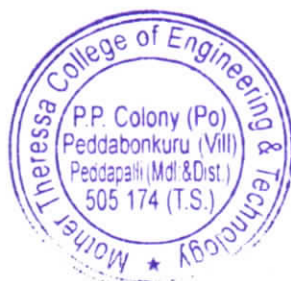



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PROGRAM OUTCOMES

1. **Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
2. **Problem analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
3. **Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
4. **Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
5. **Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations
6. **The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
7. **Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
8. **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
9. **Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
10. **Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.



Y. Sreenivasulu Reddy
PRINCIPAL
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11. **Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

12. **Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change



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PROGRAM SPECIFIC OUTCOMES AND PROGRAM EDUCATIONAL OBJECTIVES

ELECTRONIC AND COMMUNICATION ENGINEERING

PROGRAM SPECIFIC OBJECTIVE(PSO's)

Program Specific Objective 1: "To empower Electronics and Communication Engineers with a comprehensive understanding of advanced electronic circuit design, analysis, and implementation, enabling them to develop innovative solutions for modern communication systems.

Program Specific Objective 2: "To foster a collaborative and interdisciplinary mindset among Electronics and Communication Engineering graduates, enabling them to work effectively with professionals from various fields and contribute to the development of sustainable, interconnected communication technologies for a rapidly evolving digital world."

PROGRAM EDUCATIONAL OBJECTIVES(PEO's)

PEO1: To produce graduates who are well-equipped with the knowledge and skills in Electronics and Communication Engineering to excel in a constantly evolving technological landscape.

PEO2: To cultivate a culture of creativity, effective problem-solving, and innovation among our graduates, with an emphasis on research and practical applications within the Electronics and Communication Engineering field.

PEO3: To develop professionals who can actively engage in collaboration with industry, academia, and the community, addressing real-world challenges and contributing to the advancement of the ECE domain.

PEO4: To instill in our graduates a strong sense of responsibility for sustainability and environmental awareness, empowering them to actively contribute to a greener, more sustainable future within the field of Electronics and Communication Engineering, aligning with the department's mission and goals.



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ELECTRICAL AND ELECTRONICS ENGINEERING

PROGRAM SPECIFIC OBJECTIVE(PSO's)

Program-Specific Objective 1: Students will gain expertise in sustainable energy sources, power generation, and distribution systems. They will understand the importance of renewable energy and energy-efficient technologies, including solar, wind, and energy storage systems.

Program-Specific Objective 2: Graduates will be capable of designing and implementing energy-efficient power systems and contribute to reducing the environmental impact of electrical energy generation.

PROGRAM EDUCATIONAL OBJECTIVES(PEO's)

PEO1: To produce graduates who are well-equipped with the knowledge and skills in Electrical and Electronics Engineering to excel in a rapidly changing technological landscape.

PEO2: To promote innovation through research and practical applications, nurturing a culture of creativity and effective problem-solving within the field of Electrical and Electronics Engineering.

PEO3: To develop professionals who can actively engage in collaboration with industry, academia, and the community, addressing real-world challenges and contributing to the growth and development of the Electrical and Electronics domain.

PEO4: To instill in our graduates a strong sense of responsibility for sustainability and environmental awareness, empowering them to actively contribute to a greener, more sustainable future within the field of Electrical and Electronics Engineering, aligning with the department's mission and goals.



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COMPUTER SCIENCE AND ENGINEERING

PROGRAM SPECIFIC OBJECTIVE(PSO's)

Program Specific Objective 1 (PSO1): "Enable Computer Science Engineering graduates to leverage their knowledge in computer science and engineering fundamentals to develop innovative solutions for real-world computational challenges, fostering a culture of problem-solving and creativity."

Program Specific Objective 2 (PSO2): "Equip graduates with the skills and ethical principles to contribute to the development of advanced technology and its responsible use in society, emphasizing the importance of professional ethics and societal responsibilities in the field of Computer Science Engineering."

PROGRAM EDUCATIONAL OBJECTIVES(PEO's)

PEO1: To produce graduates who are well-equipped with the knowledge and skills in Computer Science Engineering to excel in a rapidly evolving technological landscape.

PEO2: To foster innovation through research and practical applications, nurturing a culture of creativity and effective problem-solving within the domain of Computer Science Engineering.

PEO3: To develop professionals who can actively engage in collaboration with industry, academia, and the community, addressing real-world challenges and contributing to the growth and development of Computer Science Engineering.

PEO4: To instill in our graduates a strong sense of responsibility for sustainability and environmental awareness, empowering them to actively contribute to a greener, more sustainable future, in alignment with the advancements in the field of Computer Science Engineering and the department's mission.



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DATA SCIENCE

PROGRAM SPECIFIC OBJECTIVE(PSO's)

Program-Specific Objective 1 Students will develop expertise in advanced data analysis techniques, including machine learning and statistical modeling. They will be proficient in using data analytics tools and methodologies to extract meaningful insights from complex datasets, and they will be able to build and deploy predictive models for real-world applications.

Program-Specific Objective 2: Graduates will have a strong foundation in handling and managing large volumes of data, including big data technologies and data engineering practices.

PROGRAM EDUCATIONAL OBJECTIVES(PEO's)

PEO1: "Produce Computer Science Engineering graduates with expertise in Data Science, well-versed in computer science, statistical analysis, and data processing, enabling them to excel in the ever-changing tech landscape through data-driven problem-solving."

PEO2: "Cultivate innovation in our graduates, inspiring them to push the boundaries of Data Science through research, practical applications, and creative problem-solving, contributing to the advancement of data-driven technologies."

PEO3: "Nurture collaboration among our graduates by fostering partnerships with industry, academia, and the community, enabling them to engage in multidisciplinary projects and address real-world challenges using data-driven approaches."

PEO4: "Instill a strong sense of responsibility for sustainability and environmental awareness in our graduates within the context of Data Science."



Y. Sreeraj
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COMPUTER SCIENCES AND INFORMATION TECHNOLOGY

PROGRAM SPECIFIC OBJECTIVE(PSO's)

Program Specific Objective 1 (PSO1): "Empower graduates in Computer Science to excel in software development, data analysis, and artificial intelligence, equipping them to create innovative solutions to complex computational challenges."

Program Specific Objective 2 (PSO2): "Enable graduates in Information Technology to specialize in IT infrastructure, cybersecurity, and network management, ensuring that they can design and implement secure, efficient, and scalable technology solutions for organizations."

PROGRAM EDUCATIONAL OBJECTIVES(PEO's)

PEO1: To produce graduates who are well-equipped with the knowledge and skills in Computer Science and Information Technology to excel in a rapidly changing technological landscape.

PEO2: To foster innovation through research and practical applications, nurturing a culture of creativity and effective problem-solving within the field of Computer Science and Information Technology.

PEO3: To develop professionals who can actively engage in collaboration with industry, academia, and the community, addressing real-world challenges and contributing to the growth and development of the Computer Science and Information Technology domain.

PEO4: To instill in our graduates a strong sense of responsibility for sustainability and environmental awareness, empowering them to actively contribute to a greener, more sustainable future within the field of Computer Science and Information Technology, in alignment with the department's mission and goals.




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CYBER SECURITY

PROGRAM SPECIFIC OBJECTIVE(PSO's)

Program-Specific Objective 1: Students will be able to develop and implement comprehensive cybersecurity strategies for organizations, taking into account risk assessment, threat modeling, and compliance with legal and regulatory requirements..

Program-Specific Objective 2: Students will be proficient in handling cybersecurity incidents and conducting digital forensics investigations.

PROGRAM EDUCATIONAL OBJECTIVES(PEO's)

PEO1: To produce graduates who are well-equipped with the knowledge and skills in Computer Science and Cyber Security to excel in a rapidly changing technological landscape while ensuring the security of digital systems and data.

PEO2: To foster innovation through research and practical applications, nurturing a culture of creativity and effective problem-solving within the field of Computer Science and Cyber Security.

PEO3: To develop professionals who can actively engage in collaboration with industry, academia, and the community, addressing real-world challenges and contributing to the growth and development of the Computer Science and Cyber Security domain.

PEO4: To instill in our graduates a strong sense of responsibility for sustainability and environmental awareness, empowering them to actively contribute to a greener, more sustainable future within the field of Computer Science and Cyber Security, all in alignment with the department's mission and goals



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COMPUTER SCIENCES AND ENGINEERING ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

PROGRAM SPECIFIC OBJECTIVE(PSO's)

Program-Specific Objective 1: Students will be able to apply advanced AI and ML techniques to develop innovative solutions for complex real-world problems. This includes designing and implementing AI algorithms and models for applications such as natural language processing, computer vision, robotics, and recommendation systems.

Program-Specific Objective 2: Students will be equipped with the skills and knowledge necessary to engage in AI research and development. This includes the ability to conduct original research, publish findings in peer-reviewed conferences or journals, and contribute to the advancement of the AI and ML field.

PROGRAM EDUCATIONAL OBJECTIVES(PEO's)

PEO1: To produce graduates who are well-equipped with the knowledge and skills in Artificial Intelligence and Machine Learning to adapt to a rapidly evolving technological landscape.

PEO2: To cultivate a culture of creativity and effective problem-solving skills in our graduates through research, practical applications, and innovation within the fields of Artificial Intelligence and Machine Learning.

PEO3: To develop professionals who can actively collaborate with industry, academia, and the community, addressing real-world challenges and contributing to the advancement of Artificial Intelligence and Machine Learning domains.

PEO4: To instill in our graduates a strong sense of responsibility for sustainability and environmental awareness, empowering them to utilize AI and ML technologies for the betterment of society and the environment, thus actively contributing to a greener, more sustainable future.



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MECHANICAL ENGINEERING

PROGRAM SPECIFIC OBJECTIVE(PSO's)

Program-Specific Objective 1: Graduates will develop strong leadership and decision-making skills, allowing them to analyze complex business problems, make strategic decisions, and effectively lead teams and organizations.

Program-Specific Objective 2: Students will gain the knowledge and skills necessary to navigate the global business landscape. They will develop cultural competence and adaptability to effectively work in diverse, international business environments..

PROGRAM EDUCATIONAL OBJECTIVES(PEO's)

PEO1: To produce graduates who are **equipped with** the knowledge and skills necessary to excel as future business leaders in a dynamic and evolving business landscape.


PEO2: To foster a culture of creativity, effective problem-solving, and innovation among our graduates, with an emphasis on research and practical applications in the field of business and management.

PEO3: To develop professionals who can actively engage in collaboration with industry, academia, and the community, addressing real-world business challenges and driving positive change.

PEO4: To instill in our graduates a strong sense of responsibility for sustainability and environmental awareness, empowering them to contribute to a greener, more sustainable business future in alignment with the evolving business landscape



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P.P.Colony (Po.), Peddabonkuru (Vill), PEDDAPALLI (Mdl. & Dist.) - 505174, Telangana State. Website : www.mtec86.ac.in E-mail: mtec.86@gmail.com Contact : +91 9849472523, +91 9542709545, +91 9989959556.		

MBA

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